



**THOR**  
BY RHINO INDUSTRIAL COATING SOLUTIONS

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## **CLEAR SEALER**

High Solids Preparation & Application Guide

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**CLEAR SEALERS -  
HIGH SOLIDS PREPERATION  
AND APPLICATION GUIDE**

# Clear Sealers – High Solids Preparation & Application Guide



## Surface Preparation

- All surfaces must be clean – all contaminants including dirt, dust, grease, oil, curing compounds, cement laitance, airborne pollutants, mildew, mould etc must be removed using compatible chemical cleaning product and / or mechanical process. If surfaces are not clean, sealer adhesion and final finish will be compromised. Poor surface adhesion may lead to delamination of the sealer, indicated by surface whitening / flaking or peeling of the coating.
- If surface has been ground – all dust and laitance must be removed by vacuum and pressure wash / wet vac.
- If acid etching has taken place, acid must be neutralised before sealer is applied. If neutralisation does not take place, acid will continue to attack and weaken the substrate surface. This will compromise the adhesive strength of the sealer. Residual acid may also “shock” sealer resins, delivering a white powdery finish to water based sealers and an uneven blotchy finish to solvent based sealers. Acid neutralisation may be achieved by treating the area with a 500g bicarbonate of soda: 9L water solution, followed by a pressure wash.
- All surfaces must be sound – although clear sealers will bind surfaces to a certain extent, they are not engineered for use as surface hardeners. Both new and old concrete surfaces will exhibit varying degrees of porosity. High porosity areas will absorb sealer more readily, resulting in a dull appearance. Additional coats of sealer will deliver a uniform finish in these situations.
- All surfaces must be dry – a moisture test is required 100% of the time to ascertain if the substrate is dry enough to seal. Electronic moisture meters are recommended, however a simple test may be performed as per below.
- Simple moisture test - place a 300 x 300 mm piece of black plastic / rubber mat on the area to be sealed at the hottest part of the day. Leave for 2 hours and remove, if **any** condensation is present on the under-side of the plastic, or the substrate has darkened, then it is too wet to seal. Be patient, allow to dry further and repeat test until no moisture is detected.
- If area has been previously sealed, ensure that this coating is compatible with the sealer to be used. If sealer application is recoating existing compatible sealer, ensure that final film thickness achieved does not compromise the breathability of the substrate. If in doubt, remove existing sealer chemically or mechanically.

**Important Note:** If concrete slab has been ground, the heat generated will expel moisture. If the slab is outside and left overnight, as it cools it will act like a sponge and absorb moisture from the damp night air. If the slab is then sealer too early the following day, before the moisture has had the opportunity to leave again, blistering may occur. It is recommended that an open slab be left until at least midday in good drying conditions to allow it to breathe out before applying the first coat of sealer.



## Sealer Application

- Correct sealer should be chosen that delivers the required performance and breathability characteristics suitable to the substrate.
- A trial patch is always recommended to ensure final finish and performance characteristics are as required.
- Sealer should only be applied as per recommended coverage rates. Not enough sealer and performance will be compromised. Too much sealer and substrate breathability will be compromised and moisture / adhesion issues may be experienced.
- Do not thin sealer with any solvent other than recommended compatible product. Different solvents have different flash points, which can compromise sealer cure and performance characteristics. For example, sealer solvent flash point is 46°C, Xylene flash point is 26°C.
- Do not park a motor vehicle on sealer surfaces, using appropriate sealer, for 7 days.
- Remember – less is more! You can always add another coat; it's much harder to remove if there is too much.

## When to Seal

- Only when substrate is completely dry.
- It is recommended that sealer is applied late morning to early afternoon – after substrate moisture has been released and dew point has been exceeded.
- Do not seal if surface / ambient temperature is too high, carrier solvent will evaporate too quickly and not allow resins / polymers to coalesce at the correct rate.
- Do not seal if rain is expected during initial cure time.
- Do not seal if humidity is too high (>85%), or likely to be during the initial cure phase. Dew points also need to be considered.
- Do not seal if surface / ambient temperature is too low (<10°C) as carrier solvent will not evaporate and allow resins / polymers to coalesce at the correct rate also do not seal if the surface / ambient temperature is too high (>35°C). However direct sun, time of day, temperature increase / decrease etc. must still be a consideration.
- Weather details may be checked on the below website:  
<http://www.bom.gov.au/climate/data/index.shtml?>



## Moisture Related Issues

- **Sealer coating bubbles / blisters** – if excessive substrate moisture is present, this will try and leave the surface as increasing atmospheric temperatures open substrate pores and draw moisture up. If sealer coating is yet to fully cure, and is still in a plastic state, moisture will be trapped under the coating and expand causing blisters. This situation is more common when using premium high solids sealers than lower solids equivalents.
- **Sealer clouding** – substrate moisture may become trapped within the sealer coating as it cures, exhibited by a white cloudy appearance.
- **Sealer delamination** – substrate moisture will retard sealer ability to penetrate and bond to the surface. The passage of moisture may then delaminate the sealer from the surface, resulting in a white appearance (caused by thousands of tiny cracks in the surface) of flaking / peeling sealer.



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## Common Sealer Problems and Solutions

Problem	Solution
Cloudy/milky surface appearance	<p>Ensure moisture issue has been rectified.</p> <p>For solvent based sealers - apply liberal coat of compatible solvent, leave to react and agitate effected areas. Solvent will re-emulsify / open up the sealer enough for the trapped moisture to be released. As solvent evaporates, sealer film will cure as normal.</p> <p>For water based sealers, removal and reapplication is required.</p>
Bubbles/blisters	<p>For large blisters - ensure moisture issue has been rectified.</p> <p>For solvent based sealers - apply liberal coat of solvent, leave to react and re-emulsify sealer in effected areas. Rework sealer to dissolve blisters and allow to cure as normal.</p> <p>Ensure blisters are not caused by the presence of existing incompatible sealers. If so, remove totally and re-apply.</p> <p>Note: over-rolling during application may also trap small bubbles in the sealer coating.</p> <p>For water based sealers, removal and reapplication is required.</p>
Overlap lines	<p>Usually caused by application of insufficient film thickness or poor surface preparation where dust etc may be concentrated in lines by application tools.</p> <p>For solvent based sealers - if due to insufficient sealer, apply additional coat of sealer at correct film thickness.</p> <p>If due to contaminants, removal and reapplication is required.</p> <p>For water based sealers, removal and reapplication is required.</p>
Inconsistent sheen level	<p>Usually caused by inconsistent substrate porosity or standard of preparation.</p> <p>Apply additional coat of sealer at correct film thickness.</p>
Delamination in between coats	<p>Usually caused by application of sealer over a non-compatible existing coating, or contamination between coats by dust, moisture etc.</p> <p>Remove sealer totally and re-apply.</p>
Delamination from substrate	<p>Usually caused by poor surface preparation, or when moisture is present in substrate during sealer application.</p> <p>May also be caused if the substrate is in a poor condition / friable. A densifier may be required before re-sealing.</p> <p>Remove sealer totally and re-apply.</p>







## Section 1

### CONCRETE SEALER AND TINT

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- Thor Concrete Sealer - Enhance Penetrating  
Clear penetrating sealer

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  - Thor Concrete Sealer - Gloss (21)  
Clear gloss surface treatment

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  - Thor Concrete Sealer - Gloss (25)  
Clear gloss surface treatment

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  - Thor Concrete Sealer - Next Day (WB)  
Next day waterborne sealer and curing compound

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  - Thor Concrete Sealer - Next Day  
Next day solvent based curing compound

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  - Thor Concrete Sealer - Satin Tint Base  
Tintable surface treatment

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  - Thor Concrete Sealer - Water Based  
Clear waterborne surface sealer

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  - Thor Enhance Colours  
Coloured finish treatment

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  - Rock Floor 14  
Waterborne sealer,hardener and dustproofer  
- new or old concrete floors
-



## Technical Data Sheet

# Concrete Sealer - Enhance Penetrating



Concrete Sealer & Tint

Testing Approvals: N/A

### Description

**Concrete Sealer - Enhance Penetrating** is a complex blend of Silane/Siloxane technologies which results in a sealer that penetrates deep into masonry surfaces and impedes the passage of moisture providing long-term protection to substrates against water penetration. **Concrete Sealer - Enhance Penetrating** reacts with soluble salts in cementitious surfaces to block capillaries whilst still allowing the substrate to release retained moisture ("breathe").

### Features and Benefits

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>• Invisible protection</li><li>• Reduces ingress of water and minimises efflorescence through its reaction with soluble salts and its water repellence.</li></ul> | <ul style="list-style-type: none"><li>• Excellent fungal and algal resistance</li><li>• Long term U.V. resistance</li><li>• Treated surfaces are easier to clean</li><li>• Allows substrates to breathe</li></ul> |
|---|---|

### Areas of Use

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>• Clay brick</li><li>• Concrete and concrete block</li><li>• Reconstituted stone</li></ul> | <ul style="list-style-type: none"><li>• Fibre cement panels</li><li>• Exposed aggregate panels</li><li>• Natural stone</li></ul> |
|--|--|

### Technical Data

Number of Coats:	2-3	Curing time:	7 days
Spreading Rate Per Coat:	6-10m <sup>2</sup> /L	Colour:	Clear
Wet Film Per Coat:	100-166 microns	Thinner:	N/A
Recoat (@25°C):	1-2 hours	Shelf Life:	12 months

### Application Guide

#### Surface Preparation

- Ensure all surfaces are clean, dry and free of contaminants.
- Any white efflorescence salts must be removed by either dry brushing with a stiff bristle brush or treatment with **Crommelin® Efflorescence Remover**. Rinse thoroughly with clean water and allow to dry.
- Ensure surface is dry by either testing with a moisture meter or by placing a square metre sheet of black plastic on an area most likely to be damp. Place into position as sun gains heat and remove as sun loses heat. If condensation appears on plastic, do not apply product. Repeat until no condensation appears.

#### Application Procedure and Equipment

- Application equipment should be by airless spray or for small areas a roller suitable for solvent borne products.
- Whilst substrate must be saturated, do not allow the liquid product to sit on any surface. If it does not penetrate, spread surplus with a brush until saturated into surface.
- 1st coat – apply and allow to dry.
- Apply 2nd coat when the first is sufficiently dry (to touch).



## Technical Data Sheet

# Concrete Sealer - Enhance Penetrating



Concrete Sealer & Tint

### Precautions

- Must be applied to a dry substrate.
- Do not allow to pool during application.

### Cleaning

- Wash all equipment with **Thor Concrete Sealer Thinners** before product dries.

### Health and Safety

#### Safety Precautions

- Avoid breathing vapour. Wear organic vapour respirator meeting the requirements of AS1715 and AS1716.
- Provide good ventilation – open windows and doors and use circulating fans.
- Wear eye protection.
- Wear PVC or neoprene gloves. Avoid contact with skin.
- If product is splashed on skin it should be washed off with water before it can dry.
- Keep out of the reach of children.

#### First Aid

- Swallowed: If poisoning occurs contact a doctor or Poisons Information Centre. Do not induce vomiting. Risk of aspiration into lungs. Give water to drink.
- Eye: Gently flush with running water, holding eyelids open for 15 minutes. Seek medical attention.
- Skin: Remove contaminated clothing and gently flush affected areas with soap and water. Seek medical attention if irritation develops. Launder clothing before re-use.
- Inhalation: Remove patient from exposure, into fresh air. Apply artificial respiration if patient has stopped breathing. Seek medical attention.

For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coating Solutions.

In the case of an emergency please call the Poisons Information Centre on 13 11 26

### Transport and Storage

Sizes:	15L, 200L.	Flash Point:	31°C
Weights:	15kg, 200kg.	UN Number:	1263
Dangerous Goods Class:	3	Poisons Schedule:	5
Hazchem Code:	3(Y)		

### Disclaimer

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## Technical Data Sheet

# Concrete Sealer - Gloss (21)

Concrete Sealer & Tint

Testing Approvals: N/A

Description			
<b>Concrete Sealer - Gloss (21)</b> is a tough gloss finish surface treatment that provides a classic “wet look” finish by restoring & enhancing natural colours. The product has been modified to promote extremely low dirt pick up, making treated areas easier to maintain and keep clean. Worn or damaged areas can be recoated without stripping or grinding.			
Features and Benefits			
<ul style="list-style-type: none"><li>• Extends the life of concrete pavers by up to 40%.</li><li>• Provides a clear, non-yellowing film.</li><li>• Resists oils, grease and general dirt pick up.</li></ul>		<ul style="list-style-type: none"><li>• Suppresses efflorescence.</li><li>• Enhances the natural colour of the pavers, even in heavy use areas.</li></ul>	
Areas of Use			
<ul style="list-style-type: none"><li>• All previously uncoated areas of concrete requiring a stain-resistant durable finish</li><li>• Domestic walkways and driveways</li><li>• Warehouse floors</li><li>• Bus stations</li></ul>		<ul style="list-style-type: none"><li>• Shopping malls</li><li>• Pedestrian areas</li><li>• Pattern concrete</li><li>• Stencilled concrete</li></ul>	
Technical Data			
Number of Coats: 2		Curing time: 7 days	
Spreading Rate Per Coat:		Colour: Clear	
1 <sup>st</sup> Coat (thinned 10%) 6m²/L		Thinner: Thor Solvent CT	
2 <sup>nd</sup> Coat 7-8m²/L		Shelf Life: 12 months	
Recoat (@25°C): Min. 2 hours			
Application Guide			
Surface Preparation			
<ul style="list-style-type: none"><li>• On newly paved areas remove all loose material with a dry stiff bristle broom.</li><li>• On weathered and worn paved areas remove all dirt, oil, grease and loose material using detergent and water, use degreasers where necessary. Moss and algae should be treated and removed followed by high pressure water cleaning.</li></ul>			
Application Procedure and Equipment			
<ul style="list-style-type: none"><li>• All surfaces must be thoroughly dry. Dampness in the pavers may spoil the clear finish, turning it milky. To test for moisture, tape a clear plastic sheet (300mm x 300mm) over the pavers in the most likely damp area. If moisture appears on the underside of the plastic within 2 hours, the pavers are too damp. Repeat inspection every couple of days until no moisture is present.</li><li>• Sealing of sloping surfaces may increase the potential for pedestrians to slip. <b>Slip Resistant Additive</b> can be added to provide an improved slip resistant profile. Please ensure to follow the ‘Application Procedure and Equipment’ method, stated in <b>Slip Resistant Additive</b> technical data sheet.</li><li>• For airless spray, apply direct from the container at a pressure of 800 -1000 p.s.i.</li></ul>			



## Technical Data Sheet



# Concrete Sealer - Gloss (21)

Concrete Sealer & Tint

Precautions			
<ul style="list-style-type: none"><li>Do not apply if humidity is above 85% or if rain or dew is imminent.</li><li>Do not apply if temperate is over 35°C or under 5°C. Where hot windy conditions occur, apply in the morning.</li><li><b>Concrete Sealer - Gloss (21)</b> may increase the slipperiness depending on the surface and the quantity of sealer used.</li></ul>			
Cleaning and Maintenance			
<ul style="list-style-type: none"><li>Any spills must be cleaned immediately. Spot cleaning should be carried out with diluted detergents or bleaches.</li><li>It is recommended that areas treated be scrubbed or mechanically cleaned monthly using appropriate cleaning fluids.</li></ul>			
Health and Safety			
Safety Precautions			
<ul style="list-style-type: none"><li>Avoid breathing vapour. Wear organic vapour respirator meeting the requirements of AS1715 and AS1716.</li><li>Provide good ventilation – open windows and doors and use circulating fans.</li><li>Wear eye protection.</li><li>Wear PVC or neoprene gloves. Avoid contact with skin.</li><li>If product is splashed on skin it should be washed off with water before it can dry.</li><li>Keep out of the reach of children.</li></ul>			
First Aid			
Swallowed:	If poisoning occurs contact a doctor or Poisons Information Centre. Do not induce vomiting. Risk of aspiration into lungs. Give water to drink.		
Eye:	Gently flush with running water, holding eyelids open for 15 minutes. Seek medical attention.		
Skin:	Remove contaminated clothing and gently flush affected areas with soap and water. Seek medical attention if irritation develops. Launder clothing before re-use.		
Inhalation:	Remove patient from exposure, into fresh air. Apply artificial respiration if patient has stopped breathing. Seek medical attention.		
For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coating Solutions Pty Ltd.			
In the case of an emergency please call the Poisons Information Centre on 13 11 26			
Transport and Storage			
Sizes:	15L, 200L	Flash Point:	43°C
Weights:	15Kg, 209Kg	UN Number:	1263
Dangerous Goods Class:	3.2	Poisons Schedule:	5
Hazchem Code:	3 (Y)		
Disclaimer			
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## Technical Data Sheet



# Concrete Sealer - Gloss (25)

Concrete Sealer & Tint

Testing Approvals: N/A

Description			
<b>Concrete Sealer - Gloss (25)</b> is a tough gloss finish surface treatment that provides a classic “wet look” finish by restoring & enhancing natural colours. The product has been modified to promote extremely low dirt pick up, making treated areas easier to maintain and keep clean. Worn or damaged areas can be recoated without stripping or grinding.			
Features and Benefits			
<ul style="list-style-type: none"><li>• Extends the life of concrete pavers by up to 40%.</li><li>• Provides a clear, non-yellowing film.</li><li>• Resists oils, grease and general dirt pick up.</li></ul>		<ul style="list-style-type: none"><li>• Suppresses efflorescence.</li><li>• Retains the natural colour of the pavers, even in heavy use areas.</li></ul>	
Areas of Use			
<ul style="list-style-type: none"><li>• All previously uncoated areas of concrete requiring a stain-resistant durable finish</li><li>• Domestic walkways and driveways</li><li>• Warehouse floors</li><li>• Bus stations</li></ul>		<ul style="list-style-type: none"><li>• Shopping malls</li><li>• Pedestrian areas</li><li>• Pattern concrete</li><li>• Stencilled concrete</li></ul>	
Technical Data			
Number of Coats: 2		Curing time: 7 days	
Spreading Rate Per Coat:		Colour: Clear	
1 <sup>st</sup> Coat (thinned 10%) 6m <sup>2</sup> /L		Thinner: Thor Solvent CT	
2 <sup>nd</sup> Coat 7-8m <sup>2</sup> /L		Shelf Life: 12 months	
Recoat (@25°C): Min. 2 hours			
Application Guide			
Surface Preparation			
<ul style="list-style-type: none"><li>• On newly paved areas remove all loose material with a dry stiff bristle broom.</li><li>• On weathered and worn paved areas remove all dirt, oil, grease and loose material using detergent and water, use degreasers where necessary. Moss and algae should be treated and removed followed by high pressure water cleaning.</li></ul>			
Application Procedure and Equipment			
<ul style="list-style-type: none"><li>• All surfaces must be thoroughly dry. Dampness in the pavers may spoil the clear finish, turning it milky. To test for moisture, tape a clear plastic sheet (300mm x 300mm) over the pavers in the most likely damp area. If moisture appears on the underside of the plastic within 2 hours, the pavers are too damp. Repeat inspection every couple of days until no moisture is present.</li><li>• Sealing of sloping surfaces may increase the potential for pedestrians to slip. <b>Slip Resistant Additive</b> can be added to provide an improved slip resistant profile. Please ensure to follow the ‘Application Procedure and Equipment’ method, stated in <b>Slip Resistant Additive</b> technical data sheet.</li><li>• For airless spray, apply direct from the container at a pressure of 800 -1000 p.s.i.</li></ul>			



## Technical Data Sheet

# Concrete Sealer - Gloss (25)

Concrete Sealer & Tint

### Precautions

- Do not apply if humidity is above 85% or if rain or dew is imminent.
- Do not apply if temperature is over 35°C or under 5°C. Where hot windy conditions occur, apply in the morning.
- **Concrete Sealer - Gloss (25)** may increase the slipperiness depending on the surface and the quantity of sealer used.

### Cleaning and Maintenance

- Any spills must be cleaned immediately. Spot cleaning should be carried out with diluted detergents or bleaches.
- It is recommended that areas treated be scrubbed or mechanically cleaned monthly using appropriate cleaning fluids.

### Health and Safety

#### Safety Precautions

- Avoid breathing vapour. Wear organic vapour respirator meeting the requirements of AS1715 and AS1716.
- Provide good ventilation – open windows and doors and use circulating fans.
- Wear eye protection.
- Wear PVC or neoprene gloves. Avoid contact with skin.
- If product is splashed on skin it should be washed off with water before it can dry.
- Keep out of the reach of children.

#### First Aid

- Swallowed: If poisoning occurs contact a doctor or Poisons Information Centre. Do not induce vomiting. Risk of aspiration into lungs. Give water to drink.
- Eye: Gently flush with running water, holding eyelids open for 15 minutes. Seek medical attention.
- Skin: Remove contaminated clothing and gently flush affected areas with soap and water. Seek medical attention if irritation develops. Launder clothing before re-use.
- Inhalation: Remove patient from exposure, into fresh air. Apply artificial respiration if patient has stopped breathing. Seek medical attention.

For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coating Solutions Pty Ltd.

In the case of an emergency please call the Poisons Information Centre on 13 11 26

### Transport and Storage

Sizes:	15L, 200L	Flash Point:	43°C
Weights:	15Kg, 209Kg	UN Number:	1263
Dangerous Goods Class:	3.2	Poisons Schedule:	5
Hazchem Code:	3 (Y)		

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## Technical Data Sheet

# Thor Concrete Sealer - Next Day WB



Sealing

7 Day Technical Support 1800 655 711

Testing Approvals: N/A

Description	
<p><b>Thor Concrete Sealer - Next Day WB</b> is a waterborne sealer and curing compound for freshly poured concrete and in situ limestone-concrete surfaces. It provides temporary immediate dust proofing and assists in stain protection whilst enabling the concrete to release moisture effectively. For longer term protection, <b>Thor Concrete Sealer - Water Based</b> should be applied to areas subject to reasonable traffic once the beading of water no longer occurs. In any case consider reapplying <b>Thor Concrete Sealer - Water Based</b> after 2 years in service.</p>	
Features and Benefits	
<ul style="list-style-type: none"><li>• Waterborne, no solvent fumes</li><li>• Does not change surface appearance</li><li>• Single coat application</li><li>• Highly water repellent</li></ul>	<ul style="list-style-type: none"><li>• Dust proofs surface</li><li>• Resists growth of algae and fungus</li><li>• Assists curing when applied to fresh concrete</li><li>• Surface binding properties</li></ul>
Areas of Use	
<ul style="list-style-type: none"><li>• Newly installed in-situ concrete paving</li></ul>	<ul style="list-style-type: none"><li>• Newly installed limestone-concrete paving</li></ul>
Technical Data	
Number of Coats: 1	Curing time: 7 days
Spreading Rate Per Coat: 2-4m <sup>2</sup> /L	Colour: Clear
Wet Film Per Coat: 250-500 microns	Thinner: Water
Recoat (@25°C): 30 mins	Shelf Life: 12 months
Application Guide	
<p>Surface Preparation</p> <ul style="list-style-type: none"><li>• Surfaces should be clean and free of all contaminants. Any traces of grease or oil must be completely removed.</li><li>• Use a high pressure spray nozzle to hose down and clean the surface. Allow to dry.</li></ul> <p>Application Procedure and Equipment</p> <ul style="list-style-type: none"><li>• The preferred method of application is by low pressure or airless spray, using a "flood coat" technique.</li><li>• Check application is thorough by wetting the treated area. Any dark areas (where substrate has been wet) must be re-coated once the surface has dried.</li></ul>	
Precautions	
<ul style="list-style-type: none"><li>• <b>Thor Concrete Sealer - Next Day WB</b> will not prevent marking from motor vehicle tyres.</li><li>• <b>Thor Concrete Sealer - Next Day WB</b> is alkaline and should therefore not be handled or applied with equipment made of or containing aluminium or light alloys. For the same reason, care should be taken to avoid splashes on light alloy or aluminium or wooden components and glass (windows, etc) and any other alkali sensitive surfaces.</li><li>• Do not apply if temperature is below 10°C or relative humidity is above 85% or rain is imminent.</li></ul>	





## Technical Data Sheet

# Thor Concrete Sealer - Next Day WB



Sealing

7 Day Technical Support 1800 655 711

### Cleaning

- Immediately after use flush equipment thoroughly with water and a little detergent.

### Health and Safety

#### Safety Precautions

- Provide good ventilation – open windows and doors and use circulating fans.
- If product is splashed on skin it should be washed off with water before it can dry.
- Wear gloves and eye protection during application.

#### First Aid

Swallowed: Contact a doctor or Poisons Information Centre. Do not induce vomiting. Give water to drink.

Eye: Gently flush with running water, holding eyelids open for 15 minutes. Seek medical attention.

For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coating Solutions.

In the case of an emergency please call the Poisons Information Centre on 13 11 26

### Transport and Storage

Sizes:	15L, 200L	Flash Point:	N/A
Weights:	15.5Kg, 203Kg	UN Number:	N/A
Dangerous Goods Class:	N/A		

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## Technical Data Sheet

# Concrete Sealer – Next Day (SB)



Concrete Sealer & Tint

Testing Approvals: N/A

Description			
<p><b>Concrete Sealer - Next Day (SB)</b> is a (SB) clear coating suited for use in both green and existing concrete. <b>Concrete Sealer - Next Day (SB)</b> will provide a low sheen to gloss finish and good colour enhancement of pigments and oxides leaving a ‘wet look’.</p> <p><b>Concrete Sealer - Next Day (SB)</b> is particularly suited to provide stain resistance and protection to freshly laid concrete 24 hours after the concrete is poured. When the concrete has fully cured, or 28 days after installation, apply Thor Gloss Sealer 21/25 or Satin Sealer 23 for increased and longer term protection.</p>			
Features and Benefits			
<ul style="list-style-type: none"><li>• Provides protection to concrete 24 hours after pouring.</li><li>• Provides a clear, non-yellowing film.</li><li>• Resists oils, grease and general dirt pick up.</li></ul>		<ul style="list-style-type: none"><li>• Suppresses efflorescence.</li><li>• Economical.</li></ul>	
Areas of Use			
<ul style="list-style-type: none"><li>• All previously uncoated areas of concrete requiring a stain-resistant durable finish</li><li>• Domestic walkways and driveways</li><li>• Warehouse floors</li></ul>		<ul style="list-style-type: none"><li>• Shopping malls</li><li>• Pedestrian areas</li><li>• Pattern concrete</li><li>• Stencilled concrete</li></ul>	
Technical Data			
Number of Coats:	Green concrete 1 coat Cured concrete 2 -3	Curing time:	7 days (light foot traffic 24 hours).
Spreading Rate Per Coat:	5 -8m²/L	Colour:	Clear
Recoat (@25°C):	Min. 2 hours	Thinner:	Crommelin Solvent
		Shelf Life:	12 months
Application Guide			
Surface Preparation			
Green Concrete			
<ul style="list-style-type: none"><li>• Freshly poured concrete should be left a minimum of 24 hours before sealing, or when the surface is adequately dry, shows no indication of surface pooling and is cured enough to walk on.</li></ul>			
Existing Concrete			
<ul style="list-style-type: none"><li>• On weathered and worn concrete remove all dirt, oil, grease and loose material using detergent and water, and degreasers where necessary. Moss and algae should be treated and removed followed by high pressure water washing.</li></ul>			
Application Procedure and Equipment			
<ul style="list-style-type: none"><li>• Amount of colour enhancement and gloss level is dependant on surface porosity and amount of sealer applied.</li><li>• Once a trial patch has been successfully applied full application can commence.</li><li>• For airless spray, apply direct from the container at a pressure of 800 -1000 p.s.i.</li><li>• Brush, Roller or lambswool applicators can also be used.</li></ul>			



## Technical Data Sheet

# Concrete Sealer – Next Day (SB)



Concrete Sealer & Tint

Precautions			
<ul style="list-style-type: none"><li>Do not apply if humidity is above 85% or if rain or dew is imminent.</li><li>Do not apply if temperate is over 35°C or under 5°C. Where hot windy conditions occur, apply in the morning.</li><li><b>Concrete Sealer - Next Day (SB)</b> may increase the slipperiness depending on the surface and the quantity of sealer used.</li><li><b>Concrete Sealer - Next Day (SB)</b> may not prevent tyre marking on some surfaces.</li></ul>			
Cleaning and Maintenance			
<ul style="list-style-type: none"><li>Any spills must be cleaned immediately. Spot cleaning should be carried out with diluted detergents or bleaches.</li><li>It is recommended that areas treated be scrubbed or mechanically cleaned monthly using appropriate cleaning fluids.</li></ul>			
Health and Safety			
Safety Precautions			
<ul style="list-style-type: none"><li>Avoid breathing vapor. Wear organic vapor respirator meeting the requirements of AS1715 and AS1716.</li><li>Provide good ventilation – open windows and doors and use circulating fans.</li><li>Wear eye protection.</li><li>Wear PVC or neoprene gloves. Avoid contact with skin.</li><li>Keep out of the reach of children.</li></ul>			
First Aid			
Swallowed:		If poisoning occurs contact a doctor or Poisons Information Centre. Do not induce vomiting. Risk of aspiration into lungs. Give water to drink.	
Eye:		Gently flush with running water, holding eyelids open for 15 minutes. Seek medical attention.	
Skin:		Remove contaminated clothing and gently flush affected areas with soap and water. Seek medical attention if irritation develops. Launder clothing before re-use.	
Inhalation:		Remove patient from exposure, into fresh air. Apply artificial respiration if patient has stopped breathing. Seek medical attention.	
For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coating Solutions Pty Ltd.			
In the case of an emergency please call the Poisons Information Centre on 13 11 26			
Transport and Storage			
Sizes:	15L	Flash Point:	43°C
Weights:	15Kg	UN Number:	1263
Dangerous Goods Class:	3.2	Poisons Schedule:	5
Hazchem Code:	3 (Y)		
Disclaimer			
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## Technical Data Sheet

# Concrete Sealer – Satin Tint Base



Concrete Sealer & Tint

Testing Approvals: N/A

### Description

**Concrete Sealer – Satin Tint Base** is a tough satin finish surface treatment that provides protection, restores & enhances natural colours. The product has been modified to promote extremely low dirt pick up, making treated areas easier to maintain and keep clean. Worn or damaged areas can be recoated without stripping or grinding and most stains are easily removed by detergents.

### Features and Benefits

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>• Extends the life of concrete pavers by up to 40%</li><li>• Provides a clear, non-yellowing film</li><li>• Resists oils, grease and general dirt pick up</li></ul> | <ul style="list-style-type: none"><li>• Suppresses efflorescence</li><li>• Retains the natural colour of pavers, even in heavy use areas.</li></ul> |
|---|---|

### Areas of Use

- |  |  |
|--|--|
| <ul style="list-style-type: none"><li>• All previously uncoated areas of concrete requiring a stain-resistant durable finish</li><li>• Domestic walkways and driveways</li><li>• Warehouse floors</li><li>• Bus stations</li></ul> | <ul style="list-style-type: none"><li>• Shopping malls</li><li>• Pedestrian areas</li><li>• Pattern concrete</li><li>• Stencilled concrete</li></ul> |
|--|--|

### Technical Data

Number of Coats:	2	Recoat (@25°C):	Min. 2 hours
Spreading Rate Per Coat:		Curing time:	7 days
1 <sup>st</sup> Coat (thinner 10%)	6m <sup>2</sup> /L	Colour:	Clear
2 <sup>nd</sup> Coat	5m <sup>2</sup> /L	Thinner:	Cleaning & Thinning
Wet Film Per Coat:	167-200 microns	Shelf Life:	Solvent
			12 months

### Application Guide

#### Surface Preparation

- On newly paved areas removed all loose material with a dry, stiff bristle broom.
- On weathered and worn paved areas remove all dirt, oil, grease and loose material using detergent and water, degreasers. Where necessary, moss and algae should be treated and removed, followed by high pressure water cleaning.
- All surfaces must be thoroughly dry. Dampness in the pavers may spoil the clear finish, turning it milky. To test for moisture tape a clear plastic sheet (300mm x 300mm over the pavers in the most likely damp area. If moisture appears on the underside of the plastic within 2 hours, the pavers are too damp. Repeat inspection every couple of days until no moisture is present.

#### Application Procedure and Equipment

- Sealing of sloping surfaces may increase the potential for pedestrians to slip. **Thor Slip Resistant Additive** can be added to provide an improved slip resistant profile. Please ensure to follow the 'Application Procedure and Equipment' method, stated in **Thor Slip Resistant Additive** technical data sheet.
- For airless spray, apply direct from the container at a pressure of 800-1000p.s.i. thin as necessary with **Thor Concrete Sealer Thinners**



## Technical Data Sheet

# Concrete Sealer – Satin Tint Base



### Concrete Sealer & Tint

#### Precautions

- Do not apply if humidity is above 85% or if rain is imminent.
- Do not apply if temperature is over 35 °C or under 5 °C. Where hoit windy conditions occur, apply in the morning.
- **Concrete Sealer – Satin Tint Base** may increase the slipperiness depending on the surface and the quantities of sealer used

#### Cleaning

- Equipment can be cleaned with lacquer thinners or with **Thor Concrete Sealer Thinners**.
- Any spills must be cleaned immediately. Spot cleaning should be carried out with diluted detergents or bleaches.
- It is recommended that areas treated be scrubbed or mechanically cleaned monthly using appropriate cleaning fluids

#### Health and Safety

##### Safety Precautions

- Avoid breathing vapour. Wear organic vapour respirator meeting the requirements of AS1715 and AS1716.
- Provide good ventilation – open windows and doors and use circulating fans.
- Wear eye protection.
- Wear PVC or neoprene gloves. Avoid contact with skin.
- If product is splashed on skin it should be washed off with water before it can dry.
- Keep out of the reach of children.

##### First Aid

- Swallowed: If poisoning occurs contact a doctor or Poisons Information Centre. Do not induce vomiting. Risk of aspiration into lungs. Give water to drink.
- Eye: Gently flush with running water, holding eyelids open for 15 minutes. Seek medical attention.
- Skin: Remove contaminated clothing and gently flush affected areas with soap and water. Seek medical attention if irritation develops. Launder clothing before re-use.
- Inhalation: Remove patient from exposure, into fresh air. Apply artificial respiration if patient has stopped breathing. Seek medical attention.

For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coating Solutions.

In the case of an emergency please call the Poisons Information Centre on 13 11 26

#### Transport and Storage

Sizes:	15L, 200L.	Flash Point:	43°C
Weights:	15kg, 207kg.	UN Number:	1263
Dangerous Goods Class:	3.2	Poisons Schedule:	5
Hazchem Code:	3(Y)		

#### Disclaimer

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## Technical Data Sheet

# Concrete Sealer - Water Based

## Sealing

Testing Approvals: Conforms with Paint Reference Number B15A in AS/NZS 2311:2000 Guide to the painting of buildings.

Description			
<p><b>Concrete Sealer - Water Based</b> provides a clear, hard wearing water repellent coating that will enhance and protect the appearance of low and medium porosity masonry surfaces. The hard film is resistive to water damage, disfigurement by airborne pollutants and its water repellent properties are supplemented by a highly effective biocide to inhibit the growth of fungi, algae and lichens. <b>Concrete Sealer - Water Based</b> is both trafficable and highly resistant to UV light. The use of <b>Concrete Sealer - Water Based</b> under other waterborne finishes will improve their performance and durability. <b>Concrete Sealer - Water Based</b> can be applied over cured decorative coatings.</p>			
Features and Benefits			
<ul style="list-style-type: none"><li>• Clear satin to gloss finish</li><li>• Hard wearing</li><li>• Resists stains and damage to substrate</li><li>• Resists algal and other growth</li></ul>		<ul style="list-style-type: none"><li>• UV stable</li><li>• Safe and easy to use</li><li>• Highly water repellent</li><li>• Prevents ingress of ponded water</li></ul>	
Areas of Use			
<ul style="list-style-type: none"><li>• Concrete pavers</li><li>• Stencilled concrete</li><li>• Fibre cement sheet</li></ul>		<ul style="list-style-type: none"><li>• Clay pavers</li><li>• Reconstituted and natural stone</li><li>• Mineral bound magnesia board</li></ul>	
Technical Data			
Number of Coats: 2+		Curing time:	7 days
Spreading Rate Per Coat: 10-12m²/L		Colour:	Clear (satin to gloss)
Wet Film Per Coat: 85-100 microns		Thinner:	Water
Recoat (@25°C): 1 hour		Shelf Life:	12 months
Properties		Test Method	Test Results
Volatile Organic Compound (VOC) Content		ASTMD3960	23g/L
Application Guide			
<p>Surface Preparation</p> <ul style="list-style-type: none"><li>• Clean surfaces of all contaminants such as efflorescence, mould, lichen, etc. Remove all grease, dust or dirt. Wash surface with water and scrubbing brush, rinse and allow to dry thoroughly.</li></ul> <p>Application Procedure and Equipment</p> <ul style="list-style-type: none"><li>• May be applied by brush, roller or spray depending on surface to be treated. For best protection results apply two coats.</li><li>• Sealing of sloping surfaces may increase the potential for pedestrians to slip. <b>Thor Slip Resistant Additive</b> can be added to provide an improved slip resistant profile. Please ensure to follow the 'Application Procedure and Equipment' method, stated in <b>Thor Slip Resistant Additive</b> technical data sheet.</li><li>• For the 1<sup>st</sup> coat, mix 2 parts <b>Concrete Sealer - Water Based</b> to 1 part water (2:1).</li><li>• Apply a thin but even wet coat (do not try to achieve too high a build).</li><li>• Allow to dry for approximately 15 minutes.</li></ul>			
Application Guide (continued)			
<ul style="list-style-type: none"><li>• When dry apply a 2<sup>nd</sup> coat of non-thinned <b>Concrete Sealer - Water Based</b>. Gloss (from satin to gloss) will vary with porosity and amount of <b>Concrete Sealer - Water Based</b> applied. For a higher gloss finish, apply further coats.</li></ul>			





## Technical Data Sheet

# Concrete Sealer - Water Based

### Sealing

#### Precautions

- Do not apply if air or surface temperature is below 10°C, if relative humidity is above 85% or if rain is imminent.
- Must be applied to a dry substrate
- Take care in wet, oily or other extreme conditions as the surface can become slippery.
- Not recommended for use on glazed/glassy surfaces such as some ceramic tiles.

#### Cleaning and maintenance

- Clean all equipment with water before product dries.
- Any spills must be cleaned immediately. Spot cleaning should be carried out with diluted detergents or bleaches.
- It is recommended that areas treated be scrubbed or mechanically cleaned monthly using appropriate cleaning fluids.

#### Health and Safety

##### Safety Precautions

- Provide good ventilation – open windows and doors and use circulating fans.
- If product is splashed on skin it should be washed off with water before it can dry.
- Wear gloves and eye protection during application.

##### First Aid

Swallowed: Contact a doctor or Poisons Information Centre. Do not induce vomiting. Give water to drink.

Eye: Gently flush with running water, holding eyelids open for 15 minutes. Seek medical attention.

For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coating Solutions.

In the case of an emergency please call the Poisons Information Centre on 13 11 26

#### Transport and Storage

Sizes:	15L, 200L	Flash Point:	N/A
Weights:	16Kg, 213Kg	UN Number:	N/A
Dangerous Goods Class:	N/A		

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## Technical Data Sheet

# Enhance Colours

Concrete Sealer & Tint

Testing Approvals: N/A

Description			
<b>Enhance Colour</b> is a 2L tinting system designed to complement <b>Thor Concrete Sealer – Satin Tint Base</b> by providing a colour alternative to rejuvenating aged concrete and masonry. When used in conjunction with <b>Thor Concrete Sealer – Satin Tint Base</b> , <b>Enhance Colour</b> is an ideal alternative to paving paints.			
Features and Benefits			
<ul style="list-style-type: none"><li>• 2L tint to 15L <b>Thor Concrete Sealer - Enhance Penetrating</b></li><li>• Available in 6 colours</li><li>• Resists oils, grease and general dirt pick up</li></ul>		<ul style="list-style-type: none"><li>• 1 coat system provides a wash of colour</li><li>• 2 coat system is needed to achieve opacity</li><li>• Colour penetrates up to 2mm</li></ul>	
Areas of Use			
<ul style="list-style-type: none"><li>• All previously uncoated areas of concrete requiring a stain-resistant durable coloured finish</li><li>• Domestic walkways and driveways</li><li>• Warehouse floors</li></ul>		<ul style="list-style-type: none"><li>• Shopping malls &amp; Bus stations</li><li>• Pedestrian areas</li><li>• Pattern concrete</li><li>• Stencilled concrete</li></ul>	
Technical Data			
Number of Coats: 2 (for solid colour)		Curing time: 7 days	
Spreading Rate Per Coat:		Colour: Burnt Clay, Mid Grey, Charcoal, Light Grey, Warm Sand.	
1 <sup>st</sup> Coat (thinned 10%) 8m <sup>2</sup> /L		Thinner: Cleaning & Thinning Solvent	
2 <sup>nd</sup> Coat 8m <sup>2</sup> /L		Shelf Life: 12 months	
Wet Film Per Coat: 167-200 microns			
Recoat (@25°C): Min. 4 hours			
Application Guide			
Surface Preparation			
<ul style="list-style-type: none"><li>• Refer to <b>Thor Concrete Sealer – Satin Tint Base</b> Technical Data Sheets</li></ul>			
Application Procedure and Equipment			
<ul style="list-style-type: none"><li>• 2L of <b>Thor Concrete Sealer – Satin Tint Base</b> needs to be removed from the 15L container.</li><li>• The <b>Enhance Colour</b> needs to be added to the remaining 13L.</li><li>• This should be stirred through for 10 minutes ensuring now air is entrapped.</li><li>• Sealing of sloping surfaces may increase the potential for pedestrians to slip. <b>Thor Slip Resistant Additive</b> can be added to provide an improved slip resistant profile. Please ensure to follow the ‘Application Procedure and Equipment’ method, stated in <b>Thor Slip Resistant Additive</b> technical data sheet.</li><li>• For airless spray, apply direct from the container at a pressure of 800-1000p.s.i. thin as necessary with <b>Thor Concrete Sealer Thinners</b></li></ul>			
Precautions			
<ul style="list-style-type: none"><li>• Do not apply if humidity is above 85% or if rain is imminent.</li><li>• Do not apply if temperature is over 35 °C or under 5 °C. Where hoit windy conditions occur, apply in the morning.</li><li>• <b>Concrete Sealer – Satin Tint Base</b> may increase the slipperiness depending on the surface and the quantities of sealer used</li></ul>			



# Technical Data Sheet

## Enhance Colours



Concrete Sealer & Tint

### Cleaning

- Equipment can be cleaned with lacquer thinners or with **Thor Concrete Sealer Thinners**.

### Health and Safety

#### Safety Precautions

- Avoid breathing vapour. Wear organic vapour respirator meeting the requirements of AS1715 and AS1716.
- Provide good ventilation – open windows and doors and use circulating fans.
- Wear eye protection.
- Wear PVC or neoprene gloves. Avoid contact with skin.
- If product is splashed on skin it should be washed off with water before it can dry.
- Keep out of the reach of children.

#### First Aid

- Swallowed: If poisoning occurs contact a doctor or Poisons Information Centre. Do not induce vomiting. Risk of aspiration into lungs. Give water to drink.
- Eye: Gently flush with running water, holding eyelids open for 15 minutes. Seek medical attention.
- Skin: Remove contaminated clothing and gently flush affected areas with soap and water. Seek medical attention if irritation develops. Launder clothing before re-use.
- Inhalation: Remove patient from exposure, into fresh air. Apply artificial respiration if patient has stopped breathing. Seek medical attention.

For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coating Solutions.

In the case of an emergency please call the Poisons Information Centre on 13 11 26

### Transport and Storage

Sizes:	2L	Flash Point:	43°C
Weights:	3kg	UN Number:	1263
Dangerous Goods Class:	3.2	Poisons Schedule:	5
Hazchem Code:	3(Y)		

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## Technical Data Sheet

# Rock Floor 14

Concrete Sealer & Tint

Testing Approvals: N/A

Description			
<p><b>Rock Floor 14</b> is a waterborne sealer, hardener and dustproofer for new or old concrete floors. It is a proven and highly effective means of providing a durable and stain resistant finish. The unique combinations of physical and antimicrobial properties ensure <b>Rock Floor 14</b> is not only hygienic but also suitable for both commercial and industrial floors. VOC content of <b>Rock Floor 14</b> is below the maximum VOC content for interior sealers as required by Green Star Design V2, V3, Office Interiors V.1.1</p>			
Features and Benefits			
<ul style="list-style-type: none"><li>• Prevents dusting and deterioration of concrete surfaces</li><li>• Excellent stain resistance</li><li>• Outstanding adhesion</li><li>• High abrasion resistance</li><li>• Surface hardening</li><li>• Waterborne and non-toxic</li><li>• Low sheen finish</li><li>• Suitable for vehicle traffic*</li></ul>		<ul style="list-style-type: none"><li>• Antimicrobial incorporation assists in easy cleaning</li><li>• Quick drying – 2 coats applied in one day</li><li>• Very low V.O.C's. and low odour – safe interior use</li><li>• No involved clean-up required after application, as with common surface hardeners</li><li>• Can be over coated with suitable paints adhesives and floor coverings</li><li>• Excellent resistance to mild acids and alkalis</li></ul>	
Areas of Use			
<ul style="list-style-type: none"><li>• Warehouses floors</li><li>• Factory floors</li><li>• Commercial floor areas</li><li>• Car parks*</li></ul>		<ul style="list-style-type: none"><li>• Loading docks</li><li>• Tilt up panels</li><li>• Concrete walls</li><li>• Garages*</li></ul>	
Technical Data			
Number of Coats:	2	Recoat (@25°C):	2-4 hrs
Spreading Rate Per Coat		Curing time:	7 Days
New Concrete:	10m²/L	Colour:	Milky, dries clear
Old/Dusting Concrete:	6-8m²/L	Thinner:	Water
Wet Film Per Coat:	75-110 microns	Shelf Life:	12 months
Properties		Test Method	Test Results
Volatile Organic Compound (VOC) Content		SCAQMD 304-91	63.7g/L



## Technical Data Sheet

# Rock Floor 14



Concrete Sealer & Tint

### Application Guide

#### Surface Preparation

- For new concrete, ensure concrete has been cured for at least 28 days. Ensure all traces of oil or other contaminants are removed, as this may affect adhesion. Ensure laitance is removed.

For old concrete, remove all contaminants by mechanical or chemical means, such as detergent wash, household bleach and high-pressure washing. The level of cleaning will determine the final appearance that will be achieved. Ensure laitance is removed.

#### Application Procedure and Equipment

- Before application, assess the porosity of the concrete. If the concrete has little or no porosity, dilute **Rock Floor 14** 2:1 with water and apply this diluted mixture at a rate of 10m<sup>2</sup> / L. This will assist in good penetration.
- If the first coat imparts a well-sealed surface, to prevent a high gloss finish, dilute the second coat 2:1 with water as well, and apply at a rate of 10m<sup>2</sup> / L. If a high gloss finish is required the second coat may be applied undiluted.
- For older, worn/dusting concrete, dilution is not required.

### Precautions

- Do not apply **Rock Floor 14**® if the temperature is below 10°C, or if relative humidity is above 85% or if rain is imminent.
- Do not apply **Rock Floor 14** to wet substrates – moisture content should be less than 15%. Check with a moisture meter.

### Cleaning

- All equipment can be cleaned with water before it dries.

### Health and Safety

#### Safety Precautions

- Provide good ventilation – open windows and doors and use circulating fans.
- If product is splashed on skin it should be washed off with water before it can dry.
- Wear gloves and eye protection during application.

#### First Aid

Swallowed: Contact a doctor or Poisons Information Centre. Do not induce vomiting. Give water to drink.  
Eye: Gently flush with running water, holding eyelids open for 15 minutes. Seek medical attention.

For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coatings.

In the case of an emergency please call the Poisons Information Centre on 13 11 26



## Technical Data Sheet

# Rock Floor 14

Concrete Sealer & Tint



### Transport and Storage

Sizes:	15L, 200L	Flash Point:	43°C
Weights:	15.5Kg, 210Kg	UN Number:	N/A
Dangerous Goods Class	N/A		

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## Section 2

### ANTI-GRAFFITI COATINGS

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- Thor Anti Graffiti Seal N12

Waterborne non-sacrificial  
anti-graffiti coating

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- Thor Anti Graffiti Seal S26

CSacrificial removal graffiti barrier

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- Thor Anti-Graffiti Surface Binder 20

Pre-treatment for Anti-Graffiti Seal  
S26

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## Technical Data Sheet

# Anti-Graffiti Seal S26

Anti-Graffiti Coatings

Testing Approvals: N/A

Description					
<p><b>Anti-Graffiti Seal S26</b> is a waterborne sacrificial anti-graffiti coating incorporating a specialised polymer system that provides a clear barrier against graffiti and other pollutants. Graffiti can be removed by hot water, pressure steam cleaning or using an ammonia-based cleaning agent, leaving the substrate clean and ready to be recoated.</p> <p>As a sealer, <b>Anti-Graffiti Seal S26</b> acts as a reliable water repellent whilst allowing the substrate to “breathe”. The coating is UV and weather resistant and contains a highly effective dry film fungicide to inhibit biological growth.</p> <p>VOC Content of <b>Anti-Graffiti Seal S26</b> is below the maximum VOC Content for Architectural and Interior Sealants as required by Green Star Office Design V2, V3, and Office Interiors V1.1.</p>					
Features and Benefits					
<ul style="list-style-type: none"><li>Does not alter the surface appearance of porous surfaces such as stone and brick</li><li>Removal does not damage the surface of the stone</li><li>Allows substrates to “breathe”</li><li>Resistant to a wide range of graffiti</li></ul>		<ul style="list-style-type: none"><li>Excellent UV stability and weather resistance</li><li>Long term biocidal protection</li><li>Ease of application</li><li>Non toxic, environmentally friendly system</li><li>Excellent water repellency</li></ul>			
Areas of Use					
<ul style="list-style-type: none"><li>Natural Australian Limestone</li><li>Natural Sandstone</li><li>Reconstituted stone</li><li>Rammed earth</li></ul>		<ul style="list-style-type: none"><li>Fibre cement</li><li>Cement render</li><li>Brick</li><li>Concrete (including block work)</li></ul>			
Technical Data					
Number of Coats: 2		Physical Properties		AS 1580	Test Result
Spreading Rate Per Coat: Refer Specifications		Adhesion		>0.25MPa	1.0MPa
Wet Film Per Coat: 70-250 microns		Scratch Resistance		<600gm	200gm
Recoat (@25°C): 1 hour		Artificial Weathering Resistance (1000 hrs)			
Curing time: 12-24 hours		Discoloration		≤2	0
Colour: Milky liquid		Degree of Chalking		≤2	2
Thinner: Water		Colour Change		≤2	1
Shelf Life: 12 months					
Properties		Test Method		Test Results	
Volatile Organic Compound (VOC) Content		ASTMD3960		47.1g/L	
Specifications					
Limestone and Sandstone		Low Porosity Surfaces			
1st coat: <b>Thor Anti-Graffiti Surface Binder 20</b>		(i.e. concrete, brick, reconstituted limestone, rammed earth, etc.)			
2nd coat: <b>Anti-Graffiti Seal S26</b>		1st coat: <b>Anti-Graffiti Seal S26</b>			6-
3rd coat: <b>Anti-Graffiti Seal S26</b>		2nd coat: <b>Anti-Graffiti Seal S26</b>			10m²/L
Note: Spread rates are dependent on the porosity of the stone.		Note: Application rate will vary with texture of the surface.			6-10m²/L
Note: Some colour change may occur, apply to a test area to assess suitability of the system.					





## Technical Data Sheet

# Anti-Graffiti Seal S26



### Anti-Graffiti Coatings

#### Application Guide

##### Surface Preparation

- Ensure area to be treated is clean and dry.
- On Limestone and Sandstone surfaces, ensure any areas of white dust on the surface of the stone are removed by low pressure water cleaning.
- In order to strengthen the surface of natural Limestone and Sandstone substrates, it is necessary to apply one flood coat of **Thor Anti-Graffiti Surface Binder 20** and allow to dry overnight.

##### Application Procedure and Equipment

- The amount of coats and coating method will depend on the type of surface being treated. Refer to Specifications.
- Stir well before use.
- Ensure 2nd coat is applied no more than 1 hour after the 1st coat (@ 25°C).
- By brush/roller- do not dilute, pick up runs while wet. Use medium nap roller. Apply even coats.
- Airless spray application, do not dilute. Suggested tips .017 - .019 thou. Apply evenly, overlap 25 %, apply 2nd coat at right angles to the first. Remove runs with a brush or roller as they occur. Do not allow runs to dry.
- Do not attempt to apply the coating too thinly, as this will compromise the graffiti removal properties.

##### Graffiti Removal (Hot Wash)

- While it is desirable to remove all graffiti as soon as possible, effective and complete removal is only possible once the graffiti has completely dried. In general, graffiti becomes harder to remove the longer it remains on the surface.
- The most efficient and effective removal is using a high-pressure steam cleaner. (2000psi and at 110°C). Test a small area to ensure the base coat is not damaged.
- Hold the spray nozzle at an angle of 30-45° to the surface. This ensures that the dislodged graffiti is not blown into the surface of the stone.

Once complete removal has been achieved, allow the surface to become thoroughly dry before reapplying **Anti-Graffiti Seal S26**

##### Graffiti Removal (Cold Wash)

- Apply **Thor Concrete Surface Cleaner** to the tagged area and scrub off with a stiff nylon pad. Rinse well with water.
- Once complete removal has been achieved, allow the surface to become thoroughly dry before reapplying **Anti-Graffiti Seal S26**
- It is important that all cleaned areas are recoated with 2 coats of **Anti-Graffiti Seal S26**.

#### Precautions

- Do not apply if the temperature is below 10°C or relative humidity is above 85%, or if rain is imminent.

#### Cleaning

- Clean all equipment with hot water and detergent before product dries.



## Technical Data Sheet

# Anti-Graffiti Seal S26



### Anti-Graffiti Coatings

Health and Safety			
<p>Safety Precautions</p> <ul style="list-style-type: none"><li>• Provide good ventilation – open windows and doors and use circulating fans.</li><li>• If product is splashed on skin it should be washed off with water before it can dry.</li><li>• Wear gloves and eye protection during application.</li></ul> <p>First Aid</p> <p>Swallowed: Contact a doctor or Poisons Information Centre. Do not induce vomiting. Give water to drink.</p> <p>Eye: Gently flush with running water, holding eyelids open for 15 minutes. Seek medical attention.</p> <p>For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coating Solutions Pty Ltd®.</p> <p>In the case of an emergency please call the Poisons Information Centre on 13 11 26</p>			
Transport and Storage			
Sizes:	15L	Flash Point:	N/A
Weights:	15.5Kg	UN Number:	N/A
Dangerous Goods Class:	N/A		
Disclaimer			
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## Technical Data Sheet

# Anti-Graffiti Seal N12

Anti-Graffiti Coatings

Testing Approvals: N/A

Description			
<b>Anti-Graffiti Seal N12</b> is a waterborne non-sacrificial anti-graffiti coating incorporating a specialized polymer system that provides a clear barrier against graffiti and other pollutants on dense substrates. Graffiti can be removed by the use of <b>Thor Concrete Surface Cleaner</b> . <b>Anti-Graffiti Seal N12</b> is UV and weather resistant and contains a highly effective dry film fungicide to inhibit biological growth.			
Features and Benefits			
<ul style="list-style-type: none"><li>Does not alter the surface appearance of suitable substrates.</li><li>Resistant to a wide range of graffiti</li><li>Non toxic, environmentally friendly system – low VOC</li><li>Provides antimicrobial protection for the treated surface</li></ul>		<ul style="list-style-type: none"><li>Excellent UV stability and weather resistance</li><li>Long term biocidal protection</li><li>Ease of application</li><li>Excellent water repellency</li></ul>	
Areas of Use			
<ul style="list-style-type: none"><li>Marble</li><li>Granite</li><li>Terrazzo</li></ul>		<ul style="list-style-type: none"><li>Reconstituted stone</li><li>Polished and prefab concrete</li><li>Vitrified Stones</li></ul>	
Technical Data			
Number of Coats: 2		Curing time: 24 hours	
Spreading Rate Per Coat: Up to 30m²/L		Colour: Milky liquid	
Wet Film Per Coat: 10 - 30 microns		Thinner: Water	
Recoat (@25°C): 20 minutes		Shelf Life: 12 months	
Properties		Test Method	Test Results
Volatile Organic Compound (VOC) Content		ASTMD3960	21.11g/L
Application Guide			
Surface Preparation <ul style="list-style-type: none"><li>Ensure area to be treated is clean and dry.</li></ul> Application Procedure and Equipment <ul style="list-style-type: none"><li>The amount of coats and coating method will depend on the type of surface being treated. Refer to Specifications.</li><li>Stir well before use.</li><li><b>Anti-Graffiti Seal N12</b> is usually applied to substrates using a wiping method. This can be carried out with either a lint free cloth or lambs wool applicator.</li><li>Surface should be left with a consistent but light film and allowed to dry for 48 hours.</li><li>Once dry, any remaining visible film build should be washed with warm soapy water, rinsed and buffed with soft cloth.</li><li><b>NOTE</b> – Application of a test area is required to test suitability of finish.</li></ul>			
Graffiti Removal <ul style="list-style-type: none"><li>Graffiti should be removed as soon as possible using <b>Thor Cleaner HD</b>.</li><li>After removal of graffiti, substrate should be washed with clean water.</li></ul> <b>NOTE</b> – After removal check substrate for damage. After several removals it may be necessary to recoat.			



## Technical Data Sheet

# Anti-Graffiti Seal N12

### Anti-Graffiti Coatings

#### Precautions

- Do not apply if the temperature is below 10°C or relative humidity is above 85%, or if rain is imminent.

#### Cleaning

- Clean all equipment with hot water and detergent before product dries.

#### Health and Safety

##### Safety Precautions

- Provide good ventilation – open windows and doors and use circulating fans.
- If product is splashed on skin it should be washed off with water before it can dry.
- Wear gloves and eye protection during application.

##### First Aid

Swallowed: Contact a doctor or Poisons Information Centre. Do not induce vomiting. Give water to drink.

Eye: Gently flush with running water, holding eyelids open for 15 minutes. Seek medical attention.

For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coating Solutions.

In the case of an emergency please call the Poisons Information Centre on 13 11 26

#### Transport and Storage

Sizes:	15L	Flash Point:	N/A
Weights:	15.5Kg	UN Number:	N/A
Dangerous Goods Class:	N/A		

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## Technical Data Sheet



# Anti-Graffiti Surface Binder 20

Anti-Graffiti Coatings

Testing Approvals: N/A

Description			
<b>Anti-Graffiti Surface Binder 20</b> is a clear waterborne treatment used to strengthen the surface of natural limestone and sandstone. Strengthens and protects the surface from damage caused by high pressure steam cleaning. Replaces binder in the stone that has been lost due to weathering or chemical attack.			
Features and Benefits			
<ul style="list-style-type: none"><li>• Pre-treatment prior to application of <b>Thor Anti-Graffiti Seal S26</b> coating</li></ul>		<ul style="list-style-type: none"><li>• Provides tough surface to permit high pressure cleaning</li><li>• Chemically strengthens limestone &amp; sandstone surfaces</li></ul>	
Areas of Use			
<ul style="list-style-type: none"><li>• Natural Australian limestone and sandstone</li></ul>		<ul style="list-style-type: none"><li>• Reconstituted limestone</li></ul>	
Technical Data			
Number of Coats: 1		Curing time: 3 hours	
Spreading Rate Per Coat: 1-2m²/L		Colour: Clear	
Wet Film Per Coat: 500-1000microns		Thinner: N/A	
Recoat (@25°C): N/A		Shelf Life: 12 months	
Specifications			
Refer to <b>Thor Anti Graffiti S26</b> Data Sheet for detailed specifications.			
Application Guide			
Surface Preparation			
<ul style="list-style-type: none"><li>• Ensure that the area to be treated is clean, dry and free from loose and friable contaminants.</li><li>• Ensure that any patches of white dust on the surface of the stone are removed by dry scrubbing. If stubborn areas are removed by pressure water cleaning (suggested operating pressure 800 psi), it will be necessary to allow the stone to become completely dry before applying <b>Anti-Graffiti Surface Binder 20</b>, to ensure adequate penetration.</li><li>• Remove any existing graffiti from untreated surfaces by low pressure sandblasting (suggested operating pressure 60-70 psi).</li></ul>			
Application Procedure and Equipment			
<ul style="list-style-type: none"><li>• Apply as a flood coat technique using a low-pressure spray unit.</li><li>• Allow to dry overnight, before applying <b>Thor Anti-Graffiti Seal S26</b>.</li></ul>			
Precautions			
<ul style="list-style-type: none"><li>• Do not use on granite or other dense rock substrates.</li><li>• <b>Anti-Graffiti Surface Binder 20</b> is alkaline and should therefore not be handled or applied with equipment made of or containing aluminum or light alloys. For the same reason, care should be taken to avoid splashes on light alloy, aluminum or wooden components and glass (windows, etc) and any other alkali sensitive surfaces.</li></ul>			



## Technical Data Sheet



# Anti-Graffiti Surface Binder 20

### Anti-Graffiti Coatings

Cleaning			
<ul style="list-style-type: none"><li>Wash all equipment in warm water and a small amount of detergent immediately after use.</li></ul>			
Health and Safety			
<p>Safety Precautions</p> <ul style="list-style-type: none"><li>This product is very alkaline, read the Material Safety Data Sheet before using.</li><li>Ensure gloves are worn at all times. Wash with soap and water when finished.</li><li>If product is splashed on skin it should be washed off with soap and water before it can dry.</li><li>Wear eye protection during application.</li><li>Provide good ventilation – open windows and doors and use circulating fans.</li></ul> <p>First Aid</p> <p>Swallowed: If swallowed contact a doctor or Poisons Information Centre. Do not induce vomiting. Give water to drink.</p> <p>Eye: Immediately irrigate with copious quantities of running water for 15 minutes. Holding eyelids open. Seek immediate medical attention.</p> <p>Skin: Remove contaminated clothing. Wash affected areas with running water. Seek medical attention. Launder clothing before re-use.</p> <p>For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coating Solutions Pty Ltd.</p> <p>In the case of an emergency please call the Poisons Information Centre on 13 11 26</p>			
Transport and Storage			
Sizes:	15L	Flash Point:	N/A
Weights:	18.5Kg	UN Number:	N/A
Dangerous Goods Class:	N/A	Poisons Schedule:	5
Disclaimer			
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### Section 3

## THINNERS AND REDUCERS

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- Thor Concrete Sealer Thinners

Diluent for solvent base sealers

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## Technical Data Sheet

# Concrete Sealer Thinners

### Thinners & Reducers

Testing Approvals: N/A

Description			
<b>Concrete Sealer Thinners</b> is an aromatic hydrocarbon used as a general purpose solvent/diluent for solvent based acrylic resin solutions and as a clean up solvent for these and other solvent based systems.			
Areas of Use			
• Used as a diluent for solvent based acrylic resin systems.		• May be used as a clean up solvent for all Thor solvent based products.	
Typical Properties			
Boiling Point:	155 -180°C	Specific Gravity:	0.87@ 25°C
Flash Point:	44°C approx (closed cup)	Vapour Pressure:	1.7 kPa @ 38°C
Appearance/Odour:	Colourless, strong odour	Solubility in Water:	Below 0.1% mass
Precautions			
• <b>Concrete Sealer Thinners</b> is a flammable aromatic solvent. Store in a cool place.			
• Do not use in poorly ventilated, Keep container sealed when not in use.			
Health and Safety			
Safety Precautions			
• Provide good ventilation – open windows and doors and use circulating fans.			
• If product is splashed on skin it should be washed off with water before it can dry.			
• Avoid contact with skin and eyes.			
• Wear gloves and eye protection during application.			
First Aid			
Swallowed:	Contact a doctor or Poisons Information Centre. Do not induce vomiting. Give water to drink.		
Eye:	Gently flush with running water, holding eyelids open for 15 minutes. Seek medical attention.		
For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coating Solutions.			
In the case of an emergency please call the Poisons Information Centre on 13 11 26			
Transport and Storage			
Sizes:	15L	Flash Point:	43°C
Weights:	15kg	UN Number:	1268
Dangerous Goods Class	3		
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## Section 4

### TWO PART COATINGS

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- Thor Polyaspartic Coating Kit

Super high gloss, tough, Polyaspartic concrete floor coating

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- Thor Waterborne Epoxy Sealer

Two component waterborne epoxy sealer

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## Technical Data Sheet

# Polyaspartic Coating Kit

Two Part Coatings

Testing Approvals: N/A

Description			
<b>Polyaspartic Coating Kit</b> is a two component, high solids, high gloss, clear coating that combines the excellent adhesion and toughness of Polyaspartic resin technology with the advantages of a one coat system.			
Features and Benefits			
<ul style="list-style-type: none"><li>• High gloss finish</li><li>• Tough impervious, high abrasion resistant coating</li><li>• Excellent adhesion to substrate</li><li>• High chemical resistance, including oils, fats and solvents</li><li>• Resists hot tyre pick up</li></ul>		<ul style="list-style-type: none"><li>• Fast cure</li><li>• Suitable for use over <b>Thor Concrete Sealer – Satin (23)</b>, <b>Thor Waterborne Epoxy Sealer</b> and Crommelin Flake Floor systems</li><li>• Easy 1:1 by weight or volume mix ratio</li><li>• Exceptional UV resistance</li></ul>	
Areas of Use			
Concrete floors in: <ul style="list-style-type: none"><li>• Workshops and showrooms</li><li>• Garages and sheds</li></ul>		<ul style="list-style-type: none"><li>• Domestic dwellings</li><li>• Restaurants</li><li>• Hospitals and laboratories</li></ul>	
Technical Data			
<b>Polyaspartic Coating Kit</b> may be used as a straight 1:1 by weight or volume mix, or may be thinned with <b>Thor Concrete Sealer Thinners</b> to improve surface penetration, extend pot life, increase coverage rates and aid application.			
<b>Note: Any addition of solvent must only take place after part A and part B have been thoroughly mixed. Do not add thinner in excess of recommended volumes</b>			
<b>Mix Ratio 1:1</b>		<b>Total Volume 7.2L</b>	
Number of Coats:		1	
Wet Film Per Coat:		220 microns max.	
Dry Film Per Coat:		270 microns max.	
Volume Solids:		80.6%.	
Pot Life (@25°C):		1 hour 20 minutes.	
Set to touch (@25°C):		5 hours 40 minutes.	
Touch dry (@25°C):		8 hours 30 minutes.	
Dry to handle (@25°C):		11 hours.	
<b>Mix Ratio 1:1 + 200ml Thinner</b>		<b>Total Volume 7.2L</b>	
Number of Coats:		1	
Wet Film Per Coat:		160 microns max.	
Dry Film Per Coat:		220 microns max.	
Volume Solids:		78.1%.	
Pot Life (@25°C):		1 hour 20 minutes.	
Set to touch (@25°C):		5 hours 40 minutes.	
Touch dry (@25°C):		8 hours 30 minutes.	
Dry to handle (@25°C):		11 hours.	
		Coverage:	3.3m <sup>2</sup> /L.
		Curing time:	1 day light traffic. 3 days vehicular. 7 days full chemical cure.
		Colour:	Clear.
		Thinner:	N/A.
		Shelf Life:	6 months.
		Coverage:	4.1m <sup>2</sup> /L.
		Curing time:	1 day light traffic. 3 days vehicular. 7 days full chemical cure.
		Colour:	Clear.
		Thinner:	N/A.
		Shelf Life:	6 months.



## Technical Data Sheet



# Polyaspartic Coating Kit

### Two Part Coatings

<b>Mix Ratio 1:1 + 400ml Thinner</b>  Number of Coats: Wet Film Per Coat: Dry Film Per Coat: Volume Solids: Pot Life (@25°C): Set to touch (@25°C): Touch dry (@25°C): Dry to handle (@25°C):	<b>Total Volume 7.6L</b>  1 120 microns max. 150 microns max. 75.8%. 2 hour. 5 hours 40 minutes. 8 hours 30 minutes. 10 hours 30 minutes.	Coverage: 5.6m <sup>2</sup> /L. Curing time: 20 hours light traffic. 3 days vehicular. 7 days full chemical cure.  Colour: Clear. Thinner: N/A. Shelf Life: 6 months.
Properties	Test Method	Test Results
Salt Resistance Hot Water Resistance Abrasion Resistance Solvent Resistance SKYDROL Resistance Acid Resistance Alkali Resistance VOC Content (without additional solvent)	AOASD181	Excellent Excellent Excellent Fair Good Good (low concentrates) Good 170g/L



# Polyaspartic Coating Kit

Two Part Coatings

## Application Guide

### GENERAL INFORMATION

#### Moisture Vapor Emissions Precautions

All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of the coating system.

It is the coating applicator's responsibility to conduct relative humidity probe testing to determine if excessive levels of vapor emissions are present before applying any coatings. Rhino Industrial Coating Solutions will not be held responsible for coating failures due to undetected moisture vapor emissions.

#### Surface Preparation

Concrete must be cured 30 days and be clean, structurally sound, and free of wax, loose paint or curing compounds. Concrete should be diamond ground to achieve a minimum 125 micron profile.

If more than one coat is required, due to surface profile or porosity, and more than 12 hours has elapsed between coats on the coating cannot be indented with a fingernail, abrade coat 1 with 80-100 grit sandpaper or screen to ensure intercoat adhesion.

#### Mixing Instructions

Add the entire contents of Part B to the Part A bucket. (The mixing ratio is 1 part A to 1 part B by weight or volume)

Mix for 1 full minute using slow speed drill, scraping the bottom and sides of the mixing container. Mix only the amount which can be applied within 20 minutes.

If additional **Thor Concrete Sealer Thinners** is used, this is to be added after part A and part B has been mixed together. Do not add more thinners, or other solvents than recommended.

#### Application Recommendations

**Polyaspartic Coating Kit** may be applied by lint free micro-fiber roller or lamb's wool applicator. It is vital that all applicators are lint and dust free, preventing contamination of the coating and adversely affecting the final finish. Due to short pot life, it is advised to change applicators every hour.

On large jobs, the applicator should wear spiked shoes to walk on the wet material

Application should take place immediately after mixing.

A wet edge must be maintained during application

Application rate must be greater than 1.8m<sup>2</sup>/L (4500 micron), and puddling of material must be avoided. Thick films may entrap solvent or cause CO<sub>2</sub> bubbles that will appear as frosted areas.

Protect from water, moisture vapor and air borne contaminants including dust during the curing process.



## Technical Data Sheet

# Polyaspartic Coating Kit

## Two Part Coatings

### Precautions

- Use only with adequate ventilation/ or a cartridge type respirator designed to be used for organic vapour. Avoid contact with the skin, wear protective gloves and glasses. Read Material Safety Data Sheet before using.
- Various State OH&S regulations and the Building Code of Australia include requirements for safe design in buildings. One aspect of this is slip resistance and Rhino Industrial Coating Solutions recommend having slip resistance measurements performed on a trial area of the floor being coated if slip resistance is a factor in specification.
- Do not apply to surfaces that are below 10 °C or when relative humidity is above 85%.
- Poor Mixing or inaccurate mixing ratios will result in variable cure and less than optimum hardness.

### Cleaning

- Clean equipment with **Thor Concrete Sealer Thinners** after use and before cure.

### Health and Safety

#### Safety Precautions

- Provide good ventilation – open windows and doors and use circulating fans.
- If product is splashed on skin it should be washed off with water before it can dry.
- Wear gloves and eye protection during application.

#### First Aid

Swallowed: Contact a doctor or Poisons Information Centre. Do not induce vomiting. Give water to drink.

Eye: Gently flush with running water, holding eyelids open for 15 minutes. Seek medical attention.

For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coating Solutions.

In the case of an emergency please call the Poisons Information Centre on 13 11 26

### Transport and Storage

Sizes:	7.2L kit	Flash Point:	38°C (Part B)
Weights:	7.2Kg	UN Number:	1263 (Part B)
Dangerous Goods Class:	3 (Part B)		

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## Technical Data Sheet

# Waterborne Epoxy Sealer

Two Part Coatings

Testing Approvals: N/A

Description			
<b>Waterborne Epoxy Sealer</b> is a two component waterborne epoxy sealer that combines the excellent adhesion and toughness of epoxy resins with the advantages of using water as a carrier. VOC Content of <b>Waterborne Epoxy Sealer</b> is below the maximum VOC Content for Architectural and Interior Sealants as required by Green Star Office Design V2, V3, and Office Interiors V1.1.			
Features and Benefits			
<ul style="list-style-type: none"><li>• Tough impervious coating with low/semi-gloss finish</li><li>• Excellent adhesion to damp or dry surfaces</li><li>• High chemical resistance, including oils, fats and solvents</li><li>• Simple to use with 1:1 mixing ratio</li></ul>		<ul style="list-style-type: none"><li>• Non-toxic and non-flammable</li><li>• Easily cleaned up with water</li><li>• Easy to apply by brush, roller or spray</li><li>• Chemical resistant</li></ul>	
Areas of Use			
Controlling rising damp prior to application of: <ul style="list-style-type: none"><li>• Waterproofing membranes</li><li>• Other coatings</li></ul>		Coating of concrete floors in: <ul style="list-style-type: none"><li>• Workshops</li><li>• Food Processing</li><li>• Hospitals &amp; Laboratories</li></ul>	
Technical Data			
Number of Coats: 2 Spreading Rate Per Coat: 5-7m²/L Wet Film Per Coat: 150-200 microns Recoat (@25°C): When trafficable (4-6 hours) Pot Life (@25°C): 45 minutes Pot Life (@30°C): 25 minutes		Curing time: 2-3 days Colour: Light Grey Thinner: 5% Water (if required, added to the MIXED product) Shelf Life: 6 months	
Properties		Test Method	Test Results
Salt Resistance		APASD181	Excellent
Hot Water Resistance			Excellent
Abrasion Resistance			Excellent
Solvent Resistance			Fair
SKYDROL Resistance			Good
Acid Resistance			Good (low concentrates)
Alkali Resistance			Good
VOC Content			59g/L
Volume Solids Content			57.5%V/V



# Waterborne Epoxy Sealer

## Two Part Coatings

### Application Guide

#### Surface Preparation

- Concrete surfaces should be free from grease and oil – if necessary, clean with industrial grade degreaser or apply a poultice.
- Steps must be taken to remove laitance. This is best carried out by using either mechanical abrasion or acid etching. Upon completion of etching, neutralize, rinse thoroughly and allow to dry.

#### Application Procedure and Equipment

- Mix Parts 1 and 2 separably first.
- Do not mix more product than will be used in 40 minutes as curing will occur but not appear obvious.

**NOTE:** Recommended at 25 °C and 50% relative humidity. An increase in temperature will reduce the amount of product to be mixed. A decrease in temperature will increase the amount of product that can be mixed.

- Mix equal parts by volume of Part 1 and Part 2 together thoroughly. It is strongly suggested to use a mixing drill and mixing blade. Mix for at least 3-7 minutes
- Apply to roller, brush or airless spray.
- When changing from on mix to a new mix, clean out the mixing bucket and roller tray. Old mixture will contaminate the new mix. Roller covers **must** be cleaned or replaced. It is important that the old mixture does not contaminate the new mix.
- To provide a light profile slip resistant finish add **Thor Slip Resistant Additive** to mixed **Waterborne Epoxy Sealer** at a rate to achieve the desired finish.
- To achieve the desired slip resistant profile, broadcast the appropriate dry graded aggregate into the wet 1<sup>st</sup> coat and allow to dry. Remove excess aggregate and over coat with 2<sup>nd</sup> coat.

### Precautions

- Do not apply to surfaces that are temperature below 10°C or when relative humidity is above 85%.
- Poor mixing or inaccurate mixing ratios will result in a variable cure and less than optimum hardness
- Do not apply solvent base adhesives or sealants before **Waterborne Epoxy Sealer** is hard dry.

### Cleaning and maintenance

- Clean equipment with **Thor Concrete Sealer Thinners**.

### Health and Safety

#### Safety Precautions

- Provide good ventilation – open windows and doors and use circulating fans.
- If product is splashed on skin it should be washed off with water before it can dry.
- Wear gloves and eye protection during application.

#### First Aid

Swallowed: Contact a doctor or Poisons Information Centre. Do not induce vomiting. Give water to drink.

Eye: Gently flush with running water, holding eyelids open for 15 minutes. Seek medical attention.

For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coating Solutions.

In the case of an emergency please call the Poisons Information Centre on 13 11 26



## Technical Data Sheet



# Waterborne Epoxy Sealer

Two Part Coatings

Transport and Storage			
Sizes:	8L, 20L kit	Flash Point:	N/A
Weights:	10Kg, 25Kg	UN Number:	N/A
Dangerous Goods Class:	N/A		
Disclaimer			
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## Section 5

### OTHER SURFACE TREATMENTS

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- Thor Concrete Stain Repel

Unique waterborne surface treatment

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- Thor Concrete Surface Cleaner

Degreaser and surface coating remover

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- Thor Slip Resistant Additive

Manufactured ceramic spheres

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- Thor Timber Restorer

Unique, hydrophobic, low odour waterborne polymer blend

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- Thor Waterborne Polyurethane

Tough waterborne polyurethane coating

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## Technical Data Sheet

# Concrete Stain Repel



Other Surface Treatments

Testing Approvals: N/A

Description			
<p><b>Concrete Stain Repel</b> is a unique waterborne surface treatment with great resistance to chemicals and staining agents. It has outstanding water repellency and binding properties. It is both a penetrating and a film forming sealer - this provides protection whilst allowing the various substrates to “breathe” normally. It also contains an antimicrobial additive inhibiting mould and algal growth.</p>			
Features and Benefits			
<ul style="list-style-type: none"><li>• Allows the substrate to breathe</li><li>• Highly water repellent</li><li>• Retains substrates natural appearance</li><li>• Superior stain and chemical resistance</li></ul>	<ul style="list-style-type: none"><li>• Provides antimicrobial protection for the treated surface</li><li>• UV stable</li><li>• Chemically bonds to mineral substrates</li><li>• Environmentally friendly – low V.O.C.</li></ul>		
Areas of Use			
<ul style="list-style-type: none"><li>• Marble, granite and porcelain substrates (kitchen and bathroom areas)</li><li>• Reconstituted stones</li><li>• Polished concrete</li></ul>	<ul style="list-style-type: none"><li>• Natural quarry stones</li><li>• Capping</li><li>• Paved or trafficable areas</li></ul>		
Technical Data			
Number of Coats:	2	Curing time:	7 days
Spreading Rate Per Coat:	Up to 30m²/L	Colour:	Clear
Wet Film Per Coat:	15-30 microns	Thinner:	Water
Recoat (@25°C):	0.5-2 hours	Shelf Life:	12 months
Properties	Test Method	Test Results	
Water Absorption by Mass Gain	1hr immersion in water of coated porcelain tile	< 1% mass gain	
	23g/L		
Volatile Organic Compound (VOC) Content		SCAQMD 304-91	



## Technical Data Sheet

# Concrete Stain Repel



### Other Surface Treatments

#### Application Guide

##### Surface Preparation

- Surfaces should be clean and dry for maximum penetration.

##### Application Procedure and Equipment

- Stir well before use
- May be applied using a brush, spray or lambs wool applicator.
- Surface should be left with a consistent but light film and allowed to dry for 48 hours.
- Once dry, any remaining visible streaky film build up on highly dense surfaces such as polished marble, should be washed with warm soapy water, rinsed and buffed with soft cloth.

#### Precautions

- Do not apply if temperature is below 10°C or relative humidity is above 85% or rain is imminent.
- Protect other surfaces and materials from overspray or splashes. Mask windows and doors. Any spillage or marks should be removed with water immediately.

#### Cleaning

- **Concrete Stain Repel** may become sticky while curing - clean up equipment in water immediately after use.

#### Health and Safety

##### Safety Precautions

- Provide good ventilation – open windows and doors and use circulating fans.
- If product is splashed on skin it should be washed off with water before it can dry.
- Wear gloves and eye protection during application.

##### First Aid

Swallowed: Contact a doctor or Poisons Information Centre. Do not induce vomiting. Give water to drink.

Eye: Gently flush with running water, holding eyelids open for 15 mins. Seek medical attention.

For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coatings Pty Ltd.

In the case of an emergency please call the Poisons Information Centre on 13 11 26





## Technical Data Sheet

# Concrete Stain Repel



### Other Surface Treatments

Transport and Storage			
Sizes:	4L, 15L	Flash Point:	N/A
Weights:	4kg, 15kg	UN Number:	N/A
Dangerous Goods Class:	N/A		
Disclaimer			
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## Technical Data Sheet

# Concrete Surface Cleaner

Other Surface Treatments

Testing Approvals: N/A

Description			
<b>Concrete Surface Cleaner</b> is a general purpose degreaser and cleaner designed to remove grease, grime and dirt etc, from a variety of surfaces such as metal, wood and concrete.			
Features and Benefits			
<ul style="list-style-type: none"><li>• Fast-acting</li></ul>		<ul style="list-style-type: none"><li>• Rinsable with water</li></ul>	
Areas of Use			
<ul style="list-style-type: none"><li>• Degrease metal prior to priming</li><li>• Degrease concrete surfaces prior to sealing</li></ul>		<ul style="list-style-type: none"><li>• Degreasing of car engines</li><li>• Paint brush restorer</li></ul>	
Technical Data			
Number of Coats: N/A		Curing time: N/A	
Spreading Rate Per Coat: 10-12m²/L		Colour: Clear	
Wet Film Per Coat: N/A		Thinner: N/A	
Recoat (@25°C): N/A		Shelf Life: 12 months	
Application Guide			
<p>Application Procedure and Equipment</p> <ul style="list-style-type: none"><li>• Mechanically remove any large deposits of grease and dirt. Apply by brush or cloth a liberal quantity of <b>Concrete Surface Cleaner</b> to the area to be treated.</li><li>• It is recommended to work in manageable areas of approximately 10-20m² at a time, particularly when working outdoors.</li><li>• Scrub the area to loosen the contaminants.</li><li>• After approximately 10 minutes, use fresh water, under pressure, to remove the degreaser.</li><li>• Inspect the cleaned treated area, and repeat the procedure to any areas where contamination remains.</li><li>• Allow the substrate to dry thoroughly prior to sealing or painting.</li></ul>			
Precautions			
<ul style="list-style-type: none"><li>• <b>Concrete Surface Cleaner</b> will soften painted surfaces and some plastics. It is recommended to test the product on the substrate prior to doing the whole project.</li></ul>			
Cleaning			
<ul style="list-style-type: none"><li>• All equipment can be rinsed clean with water.</li></ul>			



## Technical Data Sheet

# Concrete Surface Cleaner

Other Surface Treatments

### Health and Safety

#### Safety Precautions

- Avoid breathing vapour. Wear organic vapour respirator meeting the requirements of AS1715 and AS1716.
- Provide good ventilation – open windows and doors and use circulating fans.
- Wear eye protection.
- Wear PVC or neoprene gloves. Avoid contact with skin.
- If product is splashed on skin it should be washed off with water before it can dry.
- Keep out of the reach of children.

#### First Aid

Swallowed:	Contact a doctor or Poisons Information Centre. Do not induce vomiting. Give water to drink.
Eye:	Gently flush with running water, holding eyelids open for 15 minutes. Seek medical attention.
Skin:	Remove contaminated clothing and gently flush affected areas with soap and water. Seek medical attention if irritation develops. Launder clothing before re-use.
Inhalation:	Remove patient from exposure, into fresh air. Apply artificial respiration if patient has stopped breathing. Seek medical attention.

For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coating Solutions Pty Ltd.

In the case of an emergency please call the Poisons Information Centre on 13 11 26

### Transport and Storage

Sizes:	15L	Flash Point:	43°C
Weights:	15Kg	UN Number:	N/A
Dangerous Goods Class:	3	Poisons Schedule	6
Hazchem Code:	3(Y)		

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## Technical Data Sheet

# Slip Resistant Additive



Other Surface Treatments

Testing Approvals: N/A

Description			
<b>Slip Resistant Additive</b> is a revolutionary ceramic sphere for all film forming coatings where a slip resistive profile is required. By simply adding this white powder you will improve the slip resistant profile of the finished coating.			
Features and Benefits			
<ul style="list-style-type: none"><li>• Adds a slip resistant profile to Thor Sealers and Coatings.</li><li>• Colour &amp; size less visible in clear coatings than silica aggregates</li></ul>		<ul style="list-style-type: none"><li>• Increases compressive strength</li><li>• Will not settle when added to sealer</li><li>• Improves impact resistance</li></ul>	
Areas of Use			
<ul style="list-style-type: none"><li>• Driveways</li><li>• Pathways</li><li>• Steps</li></ul>		<ul style="list-style-type: none"><li>• Ramps</li><li>• Wet Areas</li><li>• Floors</li></ul>	
Technical Data			
Width: 130 microns (average)		Consumption: 375mL / 15L	
Weight: 0.4kg/1L		This can be varied depending on desired profile.	
Application Guide			
Application Procedure and Equipment			
<ul style="list-style-type: none"><li>• Add the <b>Slip Resistant Additive</b> at the amount required to achieve the desired profile.</li><li>• It is essential to ensure the <b>Slip Resistant Additive</b> is poured slowly into the sealer whilst stirring.</li><li>• Maintain stirring during application to ensure an even distribution of the <b>Slip Resistant Additive</b> and an even finish.</li><li>• Application of sealer with <b>Slip Resistant Additive</b> should follow as the procedures for the particular Thor Industrial Sealing and Flooring Coatings.</li></ul>			
Precautions			
<ul style="list-style-type: none"><li>• A test patch should always be carried out.</li><li>• Do not apply too heavily, as sealer performance will be affected.</li></ul>			
Transport and Storage			
Sizes:	250ml and 10L	Flash Point:	N/A
Weights:	450g	UN Number:	N/A
Dangerous Goods Class:	N/A		
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## Technical Data Sheet

# Timber Restorer



### Other Surface Treatments

Testing Approvals: Zedcon Scientific Services – accelerated UV radiation exposure over a period of 1000 hours.  
Equivalent to 2 years of real time exposure, examinations found no visible change in appearance

Description			
<p><b>Timber Restorer and Sealer</b> is based on a unique, hydrophobic, low odour waterborne polymer blend that is perfect for protecting all exterior wood surfaces from the degradation by sunlight and mold. Unlike oil-based timber sealers, the product does not darken the timber finish over time. Cracking, peeling and blistering does not occur and requires no sanding or keying prior to recoating. Test results indicate UV protection for the equivalent of 2 years without fading or cracking. Provides a tested and proven treatment to safely seal CCA treated pine, enabling future recoating without sanding.</p>			
Features and Benefits			
<ul style="list-style-type: none"><li>• Excellent water resistance</li><li>• Proven UV protection</li><li>• One coat is often all that is required</li><li>• No cracking, peeling or blistering</li><li>• No sanding required prior to recoating</li><li>• Fast drying for rapid recoating and end-use</li><li>• UV filters to reduce damage from sunlight</li><li>• Low odour, environmentally friendly</li></ul>		<ul style="list-style-type: none"><li>• Effective treatment to seal CCA (Copper Chrome Arsenate treated timber)</li><li>• Transparent/Semi-transparent</li><li>• Highly water resistant</li><li>• Effective in resisting mould growth</li><li>• Complete alkali resistance</li><li>• Waterborne technology</li></ul>	
Areas of Use			
<ul style="list-style-type: none"><li>• Wood decks</li><li>• Pergolas</li><li>• Windows and doors</li></ul>		<ul style="list-style-type: none"><li>• Garden furniture</li><li>• Cladding</li><li>• Fascias &amp; Gables</li></ul>	
Technical Data			
Number of Coats: 2		Curing time:	4-6 hours
Spreading Rate Per Coat: 6-10m²/L		Colour:	Teak, Mahogany and Clear
Wet Film Per Coat: 100-167 microns		Thinner:	N/A
Recoat (@25°C): 20-30 minutes		Shelf Life:	12 months
Properties		Test Method	Test Results
Resistance to Artificial Weathering		AS/NZ 1580.483.2	1000 hours- no visible change in appearance approximate equivalent to 2 years of real-time exposure



## Technical Data Sheet

# Timber Restorer



### Other Surface Treatments

Application Guide			
<p>Surface Preparation</p> <ul style="list-style-type: none"><li>For the best protection, apply to clean dry wood, if necessary sand off all mold and loose fibers. If mold is still present treat the affected area with bleach (1 part bleach mixed with 2 parts water). Wash away all traces of bleach and allow to dry before applying <b>Timber Restorer</b>.</li></ul> <p>Application Procedure and Equipment</p> <ul style="list-style-type: none"><li>Apply with a short nap paint pad, brush or short hair roller.</li><li>On less porous wood, 1 full coat can provide adequate protection, with Porous wood, 2 thin coats are recommended.</li><li>The 2<sup>nd</sup> coat must be applied within 4 hours of the 1<sup>st</sup> coat. For a more even look, avoid heavy 2<sup>nd</sup> coats.</li></ul>			
Precautions			
<ul style="list-style-type: none"><li>Do not apply if temperature is below 10°C or relative humidity is above 85% or rain is imminent.</li><li>Do not store in direct sunlight.</li></ul>			
Cleaning			
<ul style="list-style-type: none"><li>Wash up with warm water, rinse several times.</li></ul>			
Health and Safety			
<p>Safety Precautions</p> <ul style="list-style-type: none"><li>Provide good ventilation – open windows and doors and use circulating fans.</li><li>If product is splashed on skin it should be washed off with water before it can dry.</li><li>Wear gloves and eye protection during application.</li></ul> <p>First Aid</p> <p>Swallowed:           Contact a doctor or Poisons Information Centre. Do not induce vomiting. Give water to drink.</p> <p>Eye:                   Gently flush with running water, holding eyelids open for 15 mins. Seek medical attention.</p> <p>For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coatings Pty Ltd.</p> <p>In the case of an emergency please call the Poisons Information Centre on 13 11 26</p>			
Transport and Storage			
Sizes:	4L, 15L	Flash Point:	N/A
Weights:	4.5kg, 15kg	UN Number:	N/A
Dangerous Goods Class:	N/A		
Disclaimer			
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## Technical Data Sheet



# Waterborne Polyurethane

Other Surface Treatments

Testing Approvals: N/A

Description			
<p><b>Waterborne Polyurethane</b> is a waterborne polyurethane coating that uses European polyurethane technology to produce a tough film that has excellent abrasion and stain resisting properties. <b>Waterborne Polyurethane</b> has been specifically developed to be used over <b>Thor Polyaspartic Coating Kit</b>. <b>Waterborne Polyurethane</b> dries quickly and cures rapidly without emitting toxic fumes or leaving lingering unpleasant odours.</p>			
Features and Benefits			
<ul style="list-style-type: none"><li>• Single pack</li><li>• Excellent stain and black mark resistance</li><li>• Outstanding adhesion</li><li>• High abrasion resistance</li><li>• Non-yellowing</li></ul>		<ul style="list-style-type: none"><li>• Quick drying – 2 coats applied in one day.</li><li>• Non-flammable</li><li>• Very low V.O.C's and low odour – allows for safe interior use</li><li>• Can be over coated with suitable paints adhesives and floor coverings</li><li>• Low sheen finish</li></ul>	
Areas of Use			
<ul style="list-style-type: none"><li>• Factories and warehouse floors</li></ul>		<ul style="list-style-type: none"><li>• Commercial floor areas</li></ul>	
Technical Data			
Number of Coats: 2		Curing time: 48 hours	
Spreading Rate Per Coat: 6m²/L		Colour: Clear	
Wet Film Per Coat: 166 microns		Thinner: Water	
Recoat (@25°C): 2 hours		Shelf Life: 12 months	
Application Guide			
<p>Application Procedure</p> <ul style="list-style-type: none"><li>• Ensure system to be top coated is dry.</li><li>• Apply 2 undiluted coats of <b>Waterborne Polyurethane</b> at the rate of 6m²/L.</li><li>• Allow to dry.</li><li>• Further coats of <b>Waterborne Polyurethane</b> increase the gloss level.</li></ul>			
Precautions			
<ul style="list-style-type: none"><li>• Do not apply <b>Waterborne Polyurethane</b> if temperature is below 10°C or relative humidity is above 85% or rain is imminent.</li><li>• Do not apply <b>Waterborne Polyurethane</b> to wet substrates – moisture content should be less than 15%. Check with a moisture meter.</li></ul>			
Cleaning			
<ul style="list-style-type: none"><li>• Equipment can be cleaned with water before it dries.</li></ul>			





## Technical Data Sheet

# Waterborne Polyurethane



### Other Surface Treatments

#### Health and Safety

##### Safety Precautions

- Provide good ventilation – open windows and doors and use circulating fans.
- If product is splashed on skin it should be washed off with water before it can dry.
- Wear gloves and eye protection during application.

##### First Aid

Swallowed: Contact a doctor or Poisons Information Centre. Do not induce vomiting. Give water to drink.

Eye: Gently flush with running water, holding eyelids open for 15 mins. Seek medical attention.

For detailed information refer to product label and the current Material Safety Data Sheet available from Rhino Industrial Coatings Pty Ltd.

In the case of an emergency please call the Poisons Information Centre on 13 11 26

#### Transport and Storage

Sizes:	15L	Flash Point:	N/A
Weights:	16kg	UN Number:	N/A
Dangerous Goods Class:	N/A		

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