

BG Coating Concre Range	Pa	ne range is mainly used for the Seali attern Concrete and most types of p rt, mould, oil, petrol, tyre marks and	aving, in order to help pro			
	co ei ga	ne use of clear and coloured coating oncrete has become very popular to fective way of decorating and prote arages, floors and factories. The pur Clear: Enhancement and restoratio	day. It is a simple, attractive octing concrete paving, drive pose of the coating include on of natural substrate colo	ve and cost veways, e; ours.		
	•	<ul> <li>Colours: Designed to recolour, rejuvenate, seal and protect new and old stained concrete and paved surfaces.</li> </ul>				
	•	Due to the exceptional chemical re highly recommended for application most petrochemicals are required.	esistance which the range ons where resistance to mi			
	g	PORTANT – BEFORE PAINTING: Foluide prior to painting. Failure to for to painting. Failure to for the painting failure.		••		
	R	bserve all Occupational Health and S efer to the relevant Technical Data S or product specific and safety related	Sheets (TDS) and Safety Da			
Surface Preparation	n					
Provisions:		PEX is not suitable to be used as ar por finishes.	n overcoat for Standard E	namel and Epox		
		Test the existing surface finish as follows:				
	1. Drop $\pm$ 50 ml. Acetone in an area where the coating is in good condition					
	2.	Allow for 2 - 3 minutes contact, an cotton swab to observe reaction w be performed for best results.				
		Possible reactions:				
		<ul> <li>a) If the coating becomes tacky and if coloured some might come transferred to the cotton swab. If the surface then dries hard in 15 - 30 minutes it</li> </ul>				
		indicates that the existing coating is a solvent based acrylic similar to APEX - Heavy Duty Concrete Sealer. The coating should be OK to recoat with APEX.				
		* A small test section is however recommended prior to commencing with projects.				
		b) If the coating wrinkle and strip off the surface it may be considered to be				
		an Enamel Paint. It must either be removed or recoated with Enamel paint.				
		c) If the coating is removed from the surface and gum up in the form of soft				
		flexible slivers and balls the surface may be considered to be a Water Based				
		Coating. APEX - Heavy Duty Concrete Sealer may adhere to such a coating.				
		* A small test section is however recommended prior to commencing with				
		projects.				
		d) If no reaction occurs it indicate		•		
		coating such as either Polyurethan another two pack coating.	e or Epoxy. It must then b	e recoated with		
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### **Preparation:**

All surfaces need to be completely clean and free of all debris and foreign matter prior to sealing. Pressure cleaning ( $\geq$ 2000 psi) is advisable as the first coat is the key' which provide sound bonding and adhesion for subsequent top coating to follow.

#### **Decorative Paving and Driveways**

- Ensure that Fungi, moulds, moss and lichens are removed and treated in an appropriate manner. Use 1 part household bleach to 4 parts water or proprietary product available. Allow to react for a minimum of 2 hours.

- Degrease with appropriate degreaser.

- High pressure water wash to ensure complete clean surface, free of debris and foreign matter prior to sealing.

#### New or unpainted concrete:

*New concrete* should not be painted for 4 weeks after construction has been completed in order for concrete to cure completely. It takes 4 weeks for concrete to cure and moisture to evaporate. It may take up to 8 weeks, depending on ambient conditions for the process to complete and to achieve <5% substrate moisture to coat.

- Remove all contamination, laitance and loose surface matter by grinding, grit blasting or hand rubbing with a timber block.

- Clean, bare concrete surfaces should be acid etched with appropriate Concrete Etch or a mixture of Hydrochloric acid mixed with clean water.

• Acid etching requires neutralisation as a further step, to render the surface ready to ensure product performance...

- Acid neutralisation may be achieved by treating etched surfaces with a mixture of Bicarbonate of Soda and clean water, followed by a high pressure water wash. *Unpainted concrete* 

- Remove all contamination, laitance and loose surface matter by grinding, grit blasting or hand rubbing with a timber block.

- Degrease with appropriate degreaser.

- Clean, bare concrete and degreased surfaces should be acid etched with appropriate Concrete Etch or a mixture of Hydrochloric acid mixed with clean water.

• Acid etching requires neutralisation as a further step, to render the surface ready to ensure product performance...

- Acid neutralisation may be achieved by treating etched surfaces with a mixture of Bicarbonate of Soda and clean water, followed by a high pressure water wash.

\* Once surface preparation guide lines have been followed moisture content of the of the substrates must follow ...

# - For best results check the surface moisture levels with a hygrometer is recommended. The moisture content should be <5%

- Alternatively a 300 x 300mm piece of clean plastic film can be taped on the surface and to check for condensation after 24 hours. If condensation or sweat is observed under the plastic, the surface is not dry enough to paint. The

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surface must dry for at least 7 days after cleaning before paint can be applied. High moisture content can cause premature failure with the system performance attributes.

### Application

#### **Equipment Type**

Roller and Brush subject to suitably prepared surfaces, condition and density of the substrate to be coated.

- 230mm x 9mm nap Solvent resistant roller.

#### Mixing

Mix components well with a flat paddle or power agitator until completely homogeneous. Remix thoroughly before application.

For colour applications mix 13 lt. APEX Heavy Duty Concrete Sealer Clear with 2 lt. Colour tint. Ensure that a homogeneous colour is achieved during application, without any colour streaking.

### **Application Environment**

Surface	Ambient	Relative	
Temperature	Temperature	Humidity	
Min: 10 °C	Min: 10 °C	Min: 10%	
Max: 40 °C	Max: 40 °C	Max: 85 %	
• Or minimum 3 °C above dew point.			
• Substrate - <5% moisture content.			

Dilution Ratios (1<sup>st</sup> Coat)

Previously Sealed Compatible Surfaces: 0 - 10%

Rough Stipple Finish Concrete: 20%

Hardened, Topping Coloured or Smooth Steel Trowelled Concrete: 50%

### Dilution Ratios (2<sup>nd</sup> Coat)

RFU - No thinning required.

Note:

• More than two coats may be required on very porous concrete or when over coating dark surfaces.

• A 3<sup>rd</sup> coat is recommended for additional protection in high traffic areas e.g., where exposed to Forklift travel.

### **Drying Times**

Touch dry: 30 min @ 25°C Recoat: 2 - 4 h @ 25°C Walk able (light traffic) - 24 h.

Full cure: 7 days.

\* Drying times will be extended at cooler temperatures and high humidity.

\* Do not park vehicles with hot tyres or place heavy items on fresh applied APEX Heavy Duty Concrete Sealer for at least 7 days.

Ensure that the <5% moisture content rule is strictly adhered to during the preparation and painting process. If excessive, high moisture content would result to substrate/ adhesion failure, milky films and blistering or bubbling.

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	•	/ .			
	Approx porosit	ge/ spreading rate imately 4 to 6m <sup>2</sup> per litre pe y of the substrate. The first hould require less sealer.	<b>.</b> .		
		-			
	resistar It is ide drivewa pedestr • Anti S • Mix 1 • Stir v	o s of high traffic ability or slig nee are required BG Coating ally suited for areas with les ays, entrance foyers, access rian areas. Slip Additive is only required 20 grams Anti slip additive vell until completely incorport re that the blended materia	s - Anti slip additive shoul is than a 5° incline, such as ramps, factory loading do I as an addition to the fina into 20 lt. APEX - Heavy Di prated and homogeneous	d be used. s wet areas, cks, vehicle and I finishing coat. uty Concrete Sealer.	
General Guidance	Use 1 part ho	, moss and lichen removal: busehold bleach to 4 parts w inimum of 2 hours.	vater or proprietary produ	ct available. Allow to	
	Degrease wit - Apply by pl - Allow the s soiling up to 2	<u>Degreasing</u> : Degrease with appropriate degreaser. - Apply by plastic watering can or pump spray pack, liberally to soiled area. - Allow the solution to activate on the surface for a minimum of 5 minutes. For heavy soiling up to 2 hours. - High pressure clean with a recommended minimum water pressure of 2000 psi.			
		and application of Acid Etch concentrations are recom			
	Acid Concer	itration :	Water	Acid	
	- Rough Stip	ple Concrete	3 Parts	1 Part	
	- Smooth St	eel Trowelled Concrete	2 Parts	1 Part	
	- Hardened	or High MPa Concrete	1 Part	1 Part	
	<ul> <li>Always ad</li> </ul>	<ul> <li>Always add acid to water and use plastic containers to prepare and apply.</li> </ul>			
	fumes, long s 1. Dampen th wet but no 2. Use a plas much spla bubble slig usually aft	tching proper protective eq leeve and full length pants, ne concrete by spraying wat of puddling with water. tic watering can to spread th shing. Scrub with a nylon br ghtly (effervesce) as it is wor er 10 - 15 minutes, hose do ution residue is removed.	and shoes are a minimum er slightly with a hose so the ne acid solution as evenly ush or broom. The acid so king on the surface. When	requirement. that the concrete is as possible without lution will start to bubbling stops,	
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Always work in small areas at a time. This will prevent the acid from drying on the surface. This process may have to be repeated until the concrete stops reacting when the etch solution is applied.

Properly prepared surfaces should feel and appear like fine sand paper when finished.

Neutralisation of Concrete surfaces etched with Hydrochloric acid solutions:

Once the entire surface has been effectively etched it must be neutralised with a solution of Bicarbonate of Soda and Water (10 litres warm water and 1 Kg Bicarbonate of Soda). Flush the surface with the neutralising solution and then follow with copious amount of fresh water thereafter. To ensure that no bicarbonate of soda deposit remains on the surface it is important to concentrate on small, workable sections at a time.

<u>Refer to</u>: Relevant TDS's and SDS's sheets in regard.

#### DISCLAIMER:

The recommendations contained herein are given in all good faith and are meant to guide the specifier or the user. They are based on results gained from our tests and experiences and are believed to be reliable. No guarantee is implied by the recommendations contained herein since conditions of use, method of application and cleanliness of the substrate prior to painting are beyond our control.

#### MANUFACTURED BY BG COATINGS

U4/34 Truganina Rd 6090 Malaga Australia Should you have any queries or require any further information please contact the BG COATING advisory service: **Phone**: 1300-894-994 **<u>E-mail</u>**: info@bgcoatings.com.au

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