

Epoxy Cureseal PW

Water based epoxy primer & sealer for new, existing & green concrete

Description:

A three-component water-based amine cured epoxy primer & sealer with slight pigmentation.

Intended Uses:

A high performance, three-part penetrating primer/sealer that can be applied to green concrete and cement surfaces. Unlike traditional sealers this product does not need to be removed before further treatment. Used as a primer/sealer for green concrete, a primer for new or existing concrete or as a concrete curing membrane.

Can be used as a high quality 'bonding liquid' for weak plaster on walls, prior to skimming and painting.

Features & Benefits:

- Excellent adhesion to green concrete.
- Suitable for use with drinking water.
- Fast drying time.
- Quick return to service.
- Zero VOC – operator friendly.
- Can be brushed, rolled, or sprayed.
- Low viscosity formulation allows excellent penetration of concrete substrates.
- Good through curing – strengthens top surface of screed.
- Meets ASTM 309 requirement for use as a concrete curing compound.
- Easy clean up.
- Excellent sealer for machine abraded floors.
- Excellent adhesion to substrate & subsequent coats.
- SANS 241-1217 Drinking Water Approval Certified.

Technical Data:

Colour	Pale blue	
Components	3	
Volume Solids	37%	
Mix Ratio (Volume)	Base	0.227 Lt
	Activator	0.273 Lt
	Diluent/Water	0.500 Lt
Activator	Epoxy Activator Cureseal	
Typical Film Thickness	25µm DFT	
Theoretical Coverage	14.80 m ² / Litre @ 25µm DFT, allow for loss factors	
Method of Application	Brush, roller, or airless spray	
Number of Coats	Two coats should be applied to achieve typical DFT and a pinhole free coating.	
Flash Point	N/A	
Induction Period	Not required	
Temperature Resistance	Dry continuous – 80°C	
V.O.C	Nil	

Drying Information:

	0°C	10°C	15°C	25°C	30°C	40°C
Touch Dry	-	-	-	2 hrs	-	-
Hard Dry	-	-	-	5 hrs	-	-
Overcoating Data – See Limitations						
Substrate Temp.	0°C	10°C	15°C	25°C	30°C	40°C
Minimum	-	36 hrs	24 hrs	16 hrs	8 hrs	30 min
Full Cure	-	-	-	7 days	-	-

Note: A curing temperature below 10°C is not recommended, adequate ventilation should be maintained during application and curing.

Certifications:

Epoxy Cureseal PW Has the Following Approvals:

- SANS 241 1217:2011 – Conforms with the requirements for drinking water

Consult Specialized Coating Systems technical representative for details.

Surface Preparation:

Base & Activator components* – 5 litre and 20 litre units packed in 5 litre and 20 litre plastic containers respectively and with the activator packs supplied separately.

Note: The base is supplied as a small quantity in the biggest container to allow addition of the activator using a mechanical stirrer and then the subsequent mixing in of the diluent to make up the final quantities of 5 and 20 litres respectively

*To be diluted 50% with drinking quality water

Control of Personnel During Coating

- Material mixing operations must be controlled by qualified staff, using reliable mixing equipment.
- It is advisable to have material stock in excess of the calculated requirements.
- After completion of the application, the surface should be protected from abrasion and contamination for the full curing period.
- Newly cast cement must be hard enough to access without causing damage.
- The surface should be visibly dry i.e. no wet patches or pooled material.
- The surface shall be free of any loose, friable material or contamination (oil, grease, dirty footprints etc.).

Application:

Mixing	Material is supplied in two containers as a kit. Always mix a complete kit in the quantities supplied. Once mixed the product should be used within the pot life specified. Stir the base component well with a flat-bottomed paddle or mechanical mixer until product is uniform. Continue stirring and add the entire contents of the activator container. Continue stirring until the mixture is homogeneous. Then add the diluent in 4 equal additions, allowing the last addition to be fully incorporated before adding the next addition. Finally, stir for a further 2 minutes to ensure a homogenous mix. Note: Clean drinking water can be used as the Diluent. Regional variations in water quality can affect the quality of the final mix. If in doubt, contact Specialized Coating Systems technical service department.
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INDUSTRIAL PROTECTIVE COATINGS

Mix Ratio	Refer to technical data section above.	
Pot Life	90 minutes at 20°C Do not use product after pot life has expired!	
Brush/Roller	Recommended	
Airless Spray	Tip range 21 – 31 Thou. Pressure at the tip should not be less than 150 bar (2176 PSI).	
Thinner	Not required	Temperature can be used to control viscosity.
Cleaner	SA65 Thinner	For dry paint & equipment
Work Stoppage	Do not allow material to remain in spray equipment after use, thoroughly flush and clean all equipment with water. Once the kit has been mixed, they should not be re-sealed and it is advised that of prolonged stoppages, work recommences with freshly mixed units.	
Clean Up	Clean all equipment immediately after use with Water. It is advisable to periodically flush out spraying equipment during the course of the working day. Frequency of cleaning is dependant of upon the amount sprayed, temperature and elapsed time. Work strictly in accordance with the specified pot life of the material.	

Environment:

	Surface Temperature	Ambient Temperature	Relative Humidity
Minimum	10°C*	10°C	No lower limit
Maximum	45°C*	45°C	100%

* Or 3°C above dew point

Limitations:

- Overcoating information is given for guidance only and is subject to local climate and environmental conditions. Consult a Specialized Coating Systems representative for specific recommendations.
- For best results bring the material temperature between 20 – 30°C, unless specifically instructed otherwise, prior to mixing with and application.
- Unmixed material (in closed containers) should be maintained in protected storage in accordance with information given in the STORAGE section of this data sheet.
- After expiration of the pot life there is no immediate visible change in the product; nevertheless, the expired material must be discarded.
- Technical and application data herein is for the purpose of establishing a general guideline of the coating application procedures.
- Test performance results were obtained in a controlled laboratory environment and Specialized Coating Systems makes no claim that the exhibited published test results, or any other tests, accurately represent results found in all field environments. As application, environmental and design factors can vary, due care should be exercised in the selection and verification of the performance and use of the coating.
- This product will chalk on the surface when exposed to sunlight.

Pack Size:

5 Litre.

Storage:

- Shelf Life: 18 months minimum at 25°C from date of manufacture. Subject to inspection thereafter.
- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.

Precautions:

For complete safety and handling information please refer to the appropriate Safety Data Sheets prior to using this product.

INDUSTRIAL PROTECTIVE COATINGS

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the user's responsibility to ensure that this sheet is current prior to using the product