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WHITECHEM PRIMER W80

1 – PRODUCT DESCRIPTION

WHITECHEM PRIMER W80 is a two component, multifunctional, water based epoxy primer consisting epoxy resin and curing agent binder, giving the low viscosity characteristics necessary to wet the substrate, giving good penetration properties for porous substrates like concrete or wood.

2– FEATURES

- Low viscosity for maximum penetration
- Easy application
- VOC free and low odor
- Excellent adhesion to common substrate materials
- Barrier properties against moisture and water
- Seals pores and capillaries
- Convenient recoat properties
- Can be used indoor and outdoor applications

3– APPLICATION AREAS

- Primer before polyurea, polyurethane and epoxy coating applications
- General purpose primer and moisture vapour barrier beneath flooring installation onto porous substrates
- Primer for ceramic tiles
- To avoid osmosis bubbles that formed via the effect of the pressure from the negative side

4– USAGE

Surface Preparation: Surface must be dry, clean and free of all contamination such as dirt, oil, grease, and coatings etc. which hinder adhesion. Surface must be firm and have enough strength. If in doubt, apply a test area before beginning. The surface must have an appropriate surface profile and be well-cured (28 days at temperatures over 21°C). Shot blasting, mechanical scarification, chemical means or sandblasting should be used to prepare the substrate. Previously painted surfaces should be completely stripped of peeling or degraded paint. Wood surface must be clean and sound. Remove any oils and dirt from the surface using a degreasing solvent or strong detergent. All dust, loose and friable particles should be removed from the surface before application with brush and/or vacuum cleaner.

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Mixing: Stir the A (resin) component separately to re-disperse settling for approximately one minute using a mechanical mixer at low speed. Add Part B (hardener) into Part A, mix the components at low speed thoroughly for 3 to 5 minutes until a homogenous mixture and colour has been achieved. Scrape the bottom and sides of mixing container at least once. Ensure all materials from the base and sides of the containers are mixed in thoroughly to ensure a uniform cure. Do not aerate the mix. Mix only enough material that can be used within the working life. Mixed primer has a working time of approximately 1 hour after which any unused primer must be discarded. After mixing, primer is ready for application.

Application: For a proper application, the ambient and surface temperature should be between 10°C to 35°C. The primer can be applied using a roller, squeegee or brush. Correct amount of primer will saturate the substrate and leave a slight continuous film on the substrate top surface. Apply evenly without puddling. The primer is applied in thin layers such that the total consumption is 150 gr/m^2. Rough, porous, or absorbent surfaces will require additional primer and will reduce yield. Coating materials can be applied as soon as the primer has become tack free. Since the weather conditions are very variable, the recoat time cannot be determined precisely: low temperatures cause the prolongation of the drying time, the high temperatures accelerate the drying time. You can determine the recoat time by touching with your finger: When the applied coat starts to turn from the milk whiteness to the translucent finish, and when it reaches the hardness that will not be punctured with your fingers, the next coat should be applied.

5– PACKAGING

Available in 5 kg set (2 component kit)

6– SHELF LIFE AND STORAGE

Nine months when stored in dry conditions at temperatures between +5°C and +30°C in original, unopened and undamaged sealed packaging. Temperatures will never be allowed to drop under 0 °C. If in any case the material has been exposed to temperatures below 0 °C extensive settling of resin component will occur, probably with some phase separation. In such cases the content can only be rehomogenized briefly by using high shear agitation tools like dissolvers. At temperatures below 0°C the hardener component can freeze or separate. After warming up to 40°C and homogenization afterwards, the product can be used without any excludes. The product should not be stored exposed to direct sunlight.

7– SAFETY

For information and precautions on the safe handling, transportation storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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8– IMPORTANT

- To avoid dew point conditions during application, relative humidity must be no more than 90% and substrate temperature must be at least 5°F (3°C) above measured dew point temperature.
- Concrete should have minimum of 25 N/mm² compression resistance and minimum 1,5 N/mm² tensile strength.
- Applications below 10 °C and above 35 °C should be avoided.
- Be careful about product mixing ratio. Do not thin with solvents.
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface.
- Any repairs required to achieve a level surface must be performed prior to application
- The surface should be protected from moisture and rain for 4-6 hours after application.
- All application tools and equipments should be cleaned with thinner immediately after the use. Cured material can only be removed mechanically.
- If the maximum recoat window is missed re-grind the surface, followed by a through sweeping and vacuuming of the area.
- The color of the primer film is white at the beginning but the color turns to transparent when it fully cured.

9 – TECHNICAL FEATURES

Basis	: Epoxy
Consistency	: Liquid
Mix Ratio (by weight)	: 3:2 (resin(A):hardener (B))
Density (A+B)	: 1,1 gr/cm^3
VOC (A and B)	<0,5 g/L
Mixed viscosity (A+B)	: 2500-3000 cps
Open time (pot life)	: 60 min. (23°C 50 % R.H.)
Tack free time	: 150-180 min. (23°C 50% R.H.)
Full cure time	: 7 days (23°C 50 % R.H.)
Recoat time	: 3 to 24 hour
Min. cure temperature	: +10 °C
Consumption (coverage rate)	: 0,15-0,2 kg/m^2 (coverage will vary depending on porosity of floor)
Adhesion force (concrete)	: > 2 N/mm^2
Application temperature	: +10 °C and +35 °C

10-LEGAL NOTICE

The information presented herein is given in good faith but without warranty. It's based on our experience, indicates our laboratory work results and does not necessarily indicate final product performance. We cannot be held liable for the results obtained with our products and for any loss or accident that may result from its use. Our suggestions don't release you from the obligation to check their validity and to test our products for both your process and end use application. All our products are sold in accordance with our General Conditions of Sale. We don't make any warranty, express or implied, including but not limited to the merchantability and fitness for a particular purpose.