HR Water Based Epoxy Primer (2 Part)

GREY

Technical Data Sheet

DESCRIPTION Hydrostatic Resistant (2 part) WB Epoxy Primer.

Two+ Coats Epoxy Primer to seal mostly cementitious substrates. It resists **hydrostatic pressures** of 500 KPa (equivalent to 50 metres head of water) applied both **negative** (from underneath) & **positive** (from above), preventing rising damp in walls & floors. Epoxy is not UV Stable, so outdoors always coat our WB Epoxy Primer with **TINTED** Acrylic or Polyurethane coating, so UV rays can't shine through. For Anti-slip or extra strength, roll crushed glass into Epoxy primer. When applying a thicker coating system, one needs to broadcast the crushed glass & back roll with extra WB Epoxy Primer, so it protrudes enough to reach your final coat.

Warnings –

POROUS Concrete - always spray a MIST of water a section at a time, so the concrete is **freshly damp** to enable the WB Epoxy Primer to soak deep down into the concrete, enabling it to grip the concrete. Epoxy Primer rolled over porous concrete that didn't soak in, can later delaminate.

Epoxy Primer has a pot life depending on the room temperature. If Epoxy Primer starts to coagulate in the bucket or show any sign of rolling strangely, this means it is **starting to set**. You must immediately discard it & mix a new batch, because if it is rolled in this state, the coating will later delaminate at that section you rolled it on.

Non-porous & smooth surfaces need mechanical abrasion (grinding or sand blasting) to form a 'key'.

Top Coat – our Epoxy Primer is compatible with most Top Coats you are presently using. If you must flake & you can only afford a 2 coat system, before your Clear Top Coat, apply our WB Epoxy Primer TINTED as a second coat Primer & coat a suitable Clear Top Coat within 24 hours.

For **heavily used commercial floors** - the more coats your budget allows, the stronger & more durable the coating system will be. Crushed glass rolled into the Epoxy Primer, **bulks** up & adds Anti-Slip & durability.

Always prime all surfaces because it soaks in & **anchors** the whole coating system.

FEATURES & BENEFITS

- Can be applied on damp surfaces.
- Use with Potable Water – conforms to AS4020 (1999).
- Prevents rising damp & efflorescence.
- Excellent adhesion to most substrates including brick, masonry, concrete, stone & timber.

TYPICAL APPLICATIONS

- Freshly laid/green concrete. Gyprock.
- Waterproofing barrier for basements, tunnels, retaining walls & car parks. Water tanks.
- Masonry, brick, block & stonework.
- Fibre cement & precast panels, plant boxes.

NOT OVER GLAZED TILES – No product on the market can be coated on glazed non porous tiles, with out the risk of delamination. The only safe way to coat over tiles is to remove tiles or walk away from the job. The risk of delamination is too high with glazed tiles.

Applied on **freshly laid/green concrete**, it traps the water, for maximum hydration, helping curing. It also reduces the chances of concrete cracking through "plastic shrinkage" & optimises the **compressive strength** of the concrete. Apply our Epoxy Primer as soon as the newly laid concrete slab has set.

Use solvent based Acrylic Primer for water repellent panels or particle boards.

Coverage:
WB Epoxy PRIMER 3.5 – 4m² / Lt.
(depends of substrate porosity) per coat excluding added water.

Number of coats. minimum **two coats Primer**
Drying Time @25°C/50% RH – 0.5 mm thick. 2 – 4 hours.
Recoat time:- Walls wait 3 - 4 hours. Flat surfaces- 4+ hours or 24-48 hours - if temp is below 20°C, poor ventilation, over silicon bond breakers or sealed & reinforced areas.
Full cure: 3 days (7 days if very thick)

Surface Preparation & Application

as per our Surface Preparation Specification sheet.

All surfaces should be structurally sound, clean & free of all contaminants. Scrap away any loose or flaky material or any residual. Holes, non-structural cracks & other surface deformities should be repaired prior to application.

Always roughen the surface with mechanical abrasion to make grooves for primer to grip into (especially non-porous surfaces like existing tiles, dense/**smooth** concrete, plastic or metal).

Test how thirsty/porous the concrete is by throwing water & if air bubbles surface, the concrete is full of air pockets that need to be filled with primer. Otherwise put a clear plastic cup upside down on the concrete in direct sunlight for 10 minutes. If there's condensation in the cup, the concrete is full of air pockets. Apply primer until you see no more air bubbles coming up.

Dilution

First Coat- (slightly damp porous concrete)
ReadyToUse Epoxy Primer Mix Ratio- **1:1 by volume (no water dilution)**
1 Lt Part A + **1 Lt** Part B.
Coverage rate - ± 3.5 - 4 m²/Lt.

Second Coat-
ReadyToUse Epoxy Primer Mix Ratio- **1:1 by volume (no water dilution)**
1 Lt Part A + **1 Lt** Part B.
Coverage rate - ± 3.5 - 4 m²/Lt.

Third or even Fourth Coat-
If you have a heavy coating system going on top or a heavy anti Slip glass broadcasted. Also if you need to block contaminants' & oils in the substrate resurfacing. The more coats of Epoxy Primer you apply, the more durable your coating will be.

Mix Epoxy Primer thoroughly & gently to avoid trapping air which cause pin holes. First mix part A & B separately, then **thoroughly** mix them together**.** Apply primer with a roller (10mm nap for smoother surfaces or 20mm nap for rough surface).

Porous concrete – (first coat only) damp the surface as you go, so the Epoxy primer is sucked into the substrate, then pour & roll Epoxy Primer generously. Work it in well, to fill the voids.

Apply the next coat when Primer is dry (minimum 70 minutes) but while still **tacky** (**within 24 hours**) otherwise it hardens, forming a **smooth** surface the next coat can't stick to. Apply a second coat in the opposite direction (90 degrees to the first coat). Make sure to get a dry film thickness of at least 300 micrometres. Reapply Epoxy Primer if left uncoated for more than 24 hours.

Epoxy Primer Possibilities:

- **Broadcast Crushed Glass.** Most applicators broadcast on Epoxy Top coat, which is problematic & takes 8 hour to dry. **Epoxy Primer** dries fast in warm weather because epoxy loves warmth.

- **Add Sand & Cement to Grey Epoxy Primer & squeegee** This needs practice for a good finish. Make your own ratio of sand similar to our Concrete Repair mix ratio. Using Crushed glass instead of Sand is more forgiving. Use a high adjustable screed floor leveller. Adjust the height of this screed leveller to the thickness you want.

- **Concrete Repair** ask us to email the sheet with mix ratios to concrete repair.

.

TECHNICAL PERFORMANCE DATA

Appearance : Grey or Tinted
Finish : Semi Gloss.
Mixing ratio : 1:1 by volume.
Weight solids : 50 – 55%.
Pot Life : 2hours @ 25C.
Specific Gravity : 1.2 – 1.3 @ 25C.
Recoat Time : 4hours @ 25C & 50% RH.
Full Cure : 7days @ 25C & 50% RH.
VOC : 25g /Lt

PACKAGING- Grey – 19 litre kit.

CLEAN UP Clean all tools/ equipment & hands with soapy warm water – away from drains & waterways. HR Water Based Epoxy Primer cures under water, do not leave dirty equipment soaking in water.

LIMITATIONS

The product will cure between 10 – 35C, & cease to cure below 10C. Curing time will be adversely affected when relative humidity is >85C.
Ventilation is required in enclosed areas to enable evaporation of the water during the curing cycle.

STORAGE Store between 10°C and 30°C away from direct sunlight. Partly used containers must be sealed tight when not in use.

SHELF LIFE 12 months when stored in the original unopened packaging in a dry place at an average of 23°C.

HEALTH AND SAFETY All epoxy materials can cause irreversible skin sensitization with regular skin contact. Wear protective clothing at all times during use of epoxy material to prevent contact with the skin. Wear rubber gloves & eye/face protection during mixing & application - avoid contact with skin & eyes. In the event of contact, wash immediately with soap & water. Refer to the material safety data sheet for further information.
UN Number: N/A non flammable & non explosive.

Disclaimer ***Please Note:-*** *The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses.*

To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexpert or negligent application, or ordinary wear and tear.

Service or advice given by our staff should not amount to responsibility for the project - since the owner, or their contractor (and not AA Specialised Solutions), is responsible for procedures relating to the application of the product.

AA Specialised Solutions
A.B.N. : 65 250 127 139
Office: Hillcrest, QLD.
Warehouse: Beaudesert Rd, Archerfield, QLD, 4108
Phone: 0411 567 083