

HydrEpoxy 200

Water Based Epoxy Sealer

PRODUCT DESCRIPTION

Shelter HydrEpoxy 200 is a two component water based epoxy polyamide unpigmented sealer, binder used for sealing surfaces and providing a strong bond to difficult or improperly prepared surfaces.

FEATURES/BENEFITS

- Can be applied to wet or damp surfaces free from running or ponding water
- Can be safely applied to freshly laid hardened (green) concrete.
- Consolidates weak or rain affected concrete surfaces to form a firm substrate for subsequent treatments.
- Has good penetration, even into fine grained substrates such as high strength concrete
- Tolerant to improperly prepared surfaces.
- Seals and binds dusty or loosely bound surfaces
- Has excellent adhesion to most substrates including brick, masonry, concrete block, concrete, compressed fibreboard, stone and timber
- Non-flammable & negligible odour
- Convenient equal-part mixing ratio
- Water thinned and clean up
- Safe to use in sensitive locations (e.g. around food or habitable areas).

TYPICAL USES

- As a penetrating sealer to achieve bonding to high strength concrete or other fine textured surfaces.
- As a consolidation sealer for weak aged concrete prior to over coating with other covering or coating systems.
- As a bonding coating for surfaces where there is a risk of grease or oil in the surface.
- As a consolidation sealer for rain affected concrete to form a firm substrate.
- As a waterproofing sealer for concrete, masonry, brickwork, fibre cement, plywood and particleboard in wet areas.
- As an industrial dust suppressant and sealer for warehouse and factory floors where colour is not critical.

LIMITATIONS

Should not be applied when the surface temperature is below 8°C or above 35°C or when the relative humidity is above 90%. The curing reaction of Shelter HydrEpoxy 200 will cease at temperatures below 8°C and recommence slowly and get progressively faster as the temperature rises above 8°C.

- Good ventilation should be provided, either naturally or artificially, during the drying and curing cycle. See Norcros "System Information Sheet" #001 for further information.
- Is not stable under ultra-violet unless under water.
- Is only trafficable when used as a sealer.
- Do not sandwich water or solvent based adhesives between Shelter HydrEpoxy 200 (or any other waterproof membrane) and low permeability floor coverings. The covering should be sufficiently permeable to allow the water or solvents to escape through the covering. Use of cement based ceramic tile adhesives is satisfactory as the cement consumes the water in reaction.

IMPORTANT

When using as a penetrating sealer prior to application of other coatings care should be taken to only apply sufficient material as is required to penetrate the substrate. If a glazed surface results it should be sanded before proceeding with other coatings. Alternatively, allow the Shelter HydrEpoxy 200 about 1½ hours to penetrate and overcoat with a thin

coat of Shelter HydrEpoxy 300 at a coverage rate of 10 square metres per litre.

SURFACE PREPARATION

All surfaces to be treated should be structurally sound and thoroughly cleaned free from all surface contaminants. All existing coatings should be removed prior to the application of Shelter HydrEpoxy 200 and the pores of the concrete opened as far as possible by high pressure water blasting or abrasive blast cleaning. All concrete curing membranes or form release agents must be thoroughly removed prior to application of Shelter HydrEpoxy 200.

APPLICATION

Each component should be individually mixed to form homogeneous components then thoroughly mix the two components in the ratio of 1:1 by volume, preferably using a power stirrer, until a homogeneous mix is obtained. Only mix as much as may be used within the pot life of the product and avoid excessive aeration during mixing. Once the components are mixed apply using brush, roller or spray application techniques. When using brush or roller, work the product well into the surface.

Take particular care not to apply excessive product as this will result in a film being formed over the surface, which will glaze and results in poor adhesion of subsequent coatings. If a glazed surface results it must be sanded before proceeding with other coatings or adhesives.

To avoid obtaining this glazed surface, allow the Shelter HydrEpoxy 200 to penetrate for 60-90 minutes before applying a thin coat of Shelter HydrEpoxy 300 at a coverage rate of 10 square metres per litre.

When using as an industrial sealer and dust suppressant, two coats are normally required and it is preferable to apply the second coat after 60-90 minutes and in any event within the same day. When using for other penetrating purposes one coat is normally sufficient unless applying to a very porous surface and it is advisable to apply a thin coat of Shelter HydrEpoxy 300 after 60-90 minutes and in any event during the same day.

When applying as a bond coat to improperly prepared surfaces or surfaces that may have some grease or oil contamination, the surfaces should be first high pressure detergent washed and fresh water rinsed. The excess surface water should be removed using a squeegee and the Shelter HydrEpoxy 200 applied immediately while the contaminants remain forced deep into the matrix of the substrate.

CLEANING & THINNING

Thinning is not normally required other than for very fine grained substrates such as high strength concrete when the product may be thinned up to 20% with fresh clean water. Wash all equipment in water or water/detergent immediately on completion of work since Shelter HydrEpoxy 200 will cure underwater if equipment is left.

PROPERTY DATA

Colour:	Light honey coloured transparent
Finish:	clear gloss, which darkens and goes to mat on aging.
Volume solids:	22 ± 2%
Mixing ratio:	1:1 (Part A / Part B) by volume
Pot life:	4 hours @ 25°C
Typical coverage:	8 - 14 m ² /litre/coat depending on the porosity of the substrate
Typical no. of coats:	1-2 depending on purpose of application
Recoat time:	1½ hours @ 25°C & 50% R.H.
Full cure:	7 days @ 25°C & 50% R.H.

SAFETY DATA

Shelter HydrEpoxy 200 is classified as non-toxic, non-flammable and non-explosive. Avoid contact with skin and eyes and avoid breathing vapour or spray mist. Wear eye protection and protective gloves when mixing and using

