

TECHNICAL DATA SHEET

DUROPOXY U200 Primer

100% solids Epoxy Universal primer for concrete, steel and wood surfaces

DESCRIPTION

DuroPoxy U200 Primer (universal) is formulated as a 100% solids universal epoxy primer for substrates such as concrete, steel and wood surfaces. U200 is supplied as a two-component system and Part A is pigmented blue. **U200 primer** can also be used as a sealer over dense concrete and cementitious surfaces. The blue colour allows the applicator to note where the primer has been applied.

Features

- High adhesive strength – creates an extremely good bond to concrete substrates and aggregates
- Lower viscosity
- Excellent cure rate
- Wide window of application
- Excellent adhesion concrete
- Multipurpose epoxy Clear Sealer
- Non-flammable
- Very low VOC content

USES

- Dense concrete sealer
- Primer for base coat for polyurethane spray systems and hand applied 1k and 2k polyurethane membranes
- Primer for trafficable epoxy systems

COMPONENT PROERTIES

Property	Resin	Hardener
Appearance	Blue coloured liquid Straw coloured liquid (*)	Straw to amber colour liquid
Specific gravity g/cm ³	1.12 ± 3	1.03 ± 3
Viscosity @ 25°C / cps	450 ± 200	450 ± 200
Gardener Colour Index	-	< 2
Amine equivalent	-	115 g/eq
Epoxy equivalent weight	192 g/eq	

(*) The colour of the resin is in standard blue colour for primers – in some case a straw (no pigment can be requested- depending on certain volume requirements

MIXING AND CURING CONDITIONS

Property	RESIN / HARDENER
Mix ratio by weight (resin/ hardener)	100/60
Solids Content	100%
Mixed specific gravity	1.08 g/cm ³
Work Time (150 grams)	30 minutes @ 25°C
Overcoat time	Typically, 4 hours @ 25°C
Dry film thickness	250 microns

APPLICATION

Surface Preparation: will vary depending on surface conditions. The surface must be clean and dry from dust and particles, including grease, coatings and curing compounds. The substrate must be prepared by any way of degreasing or grinding or captive shot blasting to expose aggregate and provide a profile. Allow floor to dry if degreasing has been carried out.

Cementitious substrate moisture content must not exceed 4% by volume and must be protected against rising damp. Surfaces must be dry and failure to comply with the above results may result in failures. All substrates must be at least 3°C above the current dew point temperature. The minimum temperature for curing must be at least 3 °C above the current dew temperature.

All substrate repairs must be fully cured and compatible with polyurethane spray and polyurethane membrane. The substrate must be of a load bearing quality.

MIXING

DuroPoxy U200 primer is supplied in pre-weighed kits. It is essential the Part B hardener is added to all of the Part A and mixed thoroughly in a separate 20 litre vessel using an electric drill and paddle at (300 – 600 rpm) for a minimum of 2 minutes, mixing along the bottom and around the sides on the container. The mixing will involve working the paddle around the sides and bottom of the vessel ensuring that no unmixed material remains.

Once fully mixed, U200 primer should be applied by flat rubber or foam squeegee, twin-armed brush or airless spray, immediately to fill voids and pores in the substrate. Extremely porous substrate can be susceptible to rising damp/ moisture and may require two-coat primer application to seal the surface. To provide an additional mechanical key, the primer can be fully aggregated with Silica 50N sand immediately after the primer has been back rolled. Once the primer has been cured to a tack free state – the excess sand must be removed using a stiff bristled broom followed by vacuuming or compressed air blowing prior to over-coating. If the surface is very rough, porous or textured, the Duropoxy primer U200 should be applied by roller. Be careful to remove excess pools of primer before broadcasting aggregate.

Take care to ensure all substrates are kept dry and ambient temperature. The DuroPoxy U200 primer to be used at ambient temperatures 8-35°C. Part A and Part B temperature should be at 15-30°C at time of processing – these are the ideal temperature range.

Limitations: Under no circumstances should applications be carried out in damp weather conditions or if rain is forecast. If the temperature falls below 8°C, the DuroPoxy U200 primer should not be used.

STORAGE

Duropoxy U200 Primer should be stored in its original sealed containers for up to 12 months in controlled environment. Place out of direct sunlight at temperatures between 15-30°C.

PACKAGING and COLOUR AVAILABILITY

Duropoxy U200 Primer is supplied in 10 kg pre-weighed kit

Duropoxy U200 Part A 6.25 kg

Duropoxy U200 Part B 3.75 kg

COVERAGE

6 – 8m² /L (coverage will vary depending on the porosity of the surface).

160 - 125 um, DFT.

CLEANING

Clean the tools and equipment with rags, then wipe off using a solvent such as xylene before the resin system hardens.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use the product, please make sure that you obtain a copy MSDS.