

# The Advanced Material

## The Significant Differences...

### PRODUCT DATA SHEET

Rev. 1/04.04

## SUREFIX 280

### MEDIUM VISCOSITY EPOXY BINDER

#### DESCRIPTION

**SUREFIX 280** is a two-component, solvent free epoxy binder designed for numerous construction and repair applications. **SUREFIX 280** has excellent bonding for two layers of concrete as well as steel to concrete. It can be used to repair cracks in concrete under wet or damp conditions. It has high mechanical strength and no shrinkage during curing.

#### RECOMMENDED USES

**SUREFIX 280** can be used to pour into concrete cracks for repair purposes. It can be used to seal porous concrete, as an adhesive for bonding of old and new concrete slabs, old and newly poured concrete, and for fixing tiles, anchor bolts as well as Dowel embedment for crack repair works.

#### ADVANTAGES

- Excellent adhesion for concrete, woods, steels and etc.
- Not sensitive to damp surfaces.
- Not shrinkage during curing.
- Can be extended with clean silica aggregates to reduce cost or for thicker applications.
- High mechanical strength.
- Simple mixing procedures.
- Non – flammable.

#### PHYSICAL DATA

Solids content	: 100 %.
No. of component	: Two.
Curing mechanism	: Chemical reaction
Setting time	: 60 minutes
Pot life	: 20 minutes
Full cure	: 7 days
Colour	: Part A – White or Colourless Part B - Brown
Packing	: 5 kg and 10 kg
Adhesive strength	: 18 N/mm <sup>2</sup>
Tensile strength	: 28 N/mm <sup>2</sup>
Compressive strength	: 75 N/mm <sup>2</sup>

#### APPLICATION DATA

**Surface Preparation:** The must be structurally sound and free of contaminants such as oil, grease, dust, dirt, mould oil etc. For best performance, mechanical cleaning is most recommended.

**Mixing:** Thorough mixing is critical. Pour the entire content of Part B into Part A, a mix with a slow speed hand drill. Scrap the side of the container to ensure complete mixing. For mixing with silica aggregates, a mortar mixer is most preferred.

**Sealing:** Apply with roller, brush or airless pump.

**Bonding:** For bonding of toppings, apply **SUREFIX 280** by roller, pour concrete or epoxy topping onto the coated surface before the surface loss its tackiness or broadcast with silica aggregates immediately after laying. Lay the topping within 24 hours after the surface hardens.

**Anchoring:** Suitable for use for anchors on horizontal surfaces.

**Floor Topping:** Apply a coat of the binder onto the prepared substrate, followed immediately trowel a mixture of **SUREFIX 280** mixed with 5 parts of clean silica aggregates.

**Cleaning:** Clean all equipment and tools with PLC Cleaner #2 immediately after use.