DRI-POXY EP 178

Multi-function epoxy adhesive & patching mortar

Specifically designed to bond to most substrates such as concrete, stones, steel, iron, epoxy, glass, wood, polyester, fiber cement board, etc. Commonly used as to patch up blowholes/pinholes and patching mortar for crack sealing, precast concrete edge repair works or concrete repairs, fixing slip bricks, tiles or tiles pointings. It can be used with metal, HDPE, EDPM, concrete, ceramic, porcelain, mosaics, quarry tiles, acid-resistant floor bricks, pavers and natural stone tiles.

FEATURES/BENEFITS

- High bond strength & tensile strength
- Reduces risk of efflorescence
- Water-cleanable
- Non-sagging
- Stain- & chemical-resistant
- Suitable to be used on dry & damp substrates

APPLICATION AREAS

- Concrete, steel, glass
- Tiling on metal substrates
- Areas with chemical resistance requirements
- Countertops, vanities, laboratory table tops
- High traffic areas
- Toilets & bathrooms
- Bridge joints
- Shopping malls, airport terminal buildings
- Crack sealing/patching

PRODUCT DATA

Appearances / Colours	Light grey (mixed)
Packaging	5 kg pail
Storage	12 Months from date of production
Storage Condition	Dry conditions at Temperature between 5 - 30 °C

GENERAL INFORMATION

Origin	Epoxy Resin
Density	Part A: Approx. 1.64 g/cm^3 Part B: Approx. 0.97 g/cm^3
Change in volume	No shrinkage

TECHNICAL DATA

Description	1 Day	3 Days	7 Days
Compressive Strength (N/mm^2)	40-60	50-60	60-70
Flexural Strength (N/mm^2)	20-30	25-35	30-35
Tensile strength (N/mm^2)	9-12	10-14	10-14

Bond Strength	1 Day	3 Days
Concrete dry (N/mm^2)	>4.0	>4.0
Concrete moist (N/mm^2)	>4.0	>4.0
Steel (N/mm^2)	>6.0	>13.0

** Failure at concrete*

Water absorption (as per EN 12808-5)	0.05g
Resistance to solvents and oils	Good*
Resistance to acids & alkalis	Excellent*

** Please refer to Dritech Chemicals for chemical resistance table.*

APPLICATION CONDITIONS

Pot life	45 minutes
Open time (as an adhesive)	30 minutes
Adjustability time (as an adhesive)	60 minutes
Curing Time	Suitable for light foot traffic: 24 hours Ready to use: 4 days

SUBSTRATE

The substrate should be clean, free from oil and grease, old coatings, surface treatments, and so on. Mortar and concrete should be >28 days old. Steel substrates should be de-rusted similar to Sa 2.5. The substrate must be sound, and all loose particles must be removed.

Avoid dew point conditions.

MIXING

Mix parts A+B together for at least 3 minutes with an electric mixer at slow speed (max. 250 rpm). Always mix complete units and do not add other materials into the mixture. Avoid over-mixing as this will entrap air and reduce the pot life. Mix thoroughly until a homogeneous, consistent colour is obtained.

APPLICATION

Firmly press Dri-Poxy EP 178 onto concrete with a twisting action to ensure complete material bed of the required thickness (usually 6 to 12mm). Thicker beds should be supported for 12 to 48 hours, to prevent slipping.

When using as a thin layer adhesive, apply the mixed adhesive to the prepared surface with a spatula, trowel, notched trowel, or with hands protected by gloves. Use formwork when applying as a repair mortar.

For bonding metal profiles onto vertical surfaces, support and press uniformly using props or any necessary supports for at least 12 hours, depending on the thickness applied (not more than 5 mm). Once hardened, check the adhesion by tapping with a hammer.

TOOLS

Clean tools immediately with suitable solvent based cleaner.

LIMITATIONS

- Dri-Poxy EP 178 is an epoxy-based product and may have slight changes in colour when exposed to UV-rays or environmental contaminants.
- It is highly recommended to mix Dri-Poxy EP 178 in full sets.
- Please consult a structural engineer for applications which require design load calculations.
- The pot life of the material is shorter at high temperatures and is longer at low temperatures. The larger the quantity mixed, the shorter the pot life.

VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

HEALTH & SAFETY

For information and advice on the safe handling, 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.

LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of these products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance to the manufacturer recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Dritech Chemicals Sdn. Bhd. (1184082-K)
F-8-3, Jalan SS 7/13A, Plaza Kelana Jaya, 47301, Petaling Jaya, Selangor, Malaysia.
www.dritechchemicals.com