

PADRAPAT PARS

Products for Concrete Repair



PADRA-Poxy GEP-315

General purpose, moisture tolerant, and structural epoxy paste

DESCRIPTION

PADRA-POXY GEP-315 is a 2-component, solvent free, moisture tolerant, and non-sagging epoxy paste, used for concrete repair. PADRA-POXY GEP-315 complies with ASTM C880.

WHERE TO USE

PADRA-POXY GEP-315 is a general purpose epoxy paste and can be used in the followings:

- Repairing concrete surface defects and honeycombs
- Multi-purpose, high strength, structural epoxy paste adhesive
- Dowel bars anchoring
- Crack sealing and installing surface packer for resin injection
- Acid resistance tile fixing
- As a gap filling adhesive
- As leveling and bedding layer on surfaces to be received external reinforcement
- Crack sealing and nipple installation for epoxy resins injections.
- Structural bonding steel plates to concrete, masonry, wood, stone, etc.

ADVANTAGES

PADRA-POXY GEP-315 is an extremely versatile product that offers many advantages to the user:

- Excellent adhesion to concrete and most construction materials
- Tolerant of moisture before, during, and after cure
- Excellent early and final mechanical strengths
- Excellent chemical resistance
- Impact and shock resistance
- Colour coded components to ensure proper mixing control
- Good wetting properties, no need primer or bonding agent on dry substrate
- Easy to use and low odour
- Suitable for both, dry and damp surfaces
- Non sagging and no flow material, even at high temperatures
- Hardens without shrinkage
- Can be extended with quartz sand (0.1~2.0 mm) as a repair mortar
- Will not corrode reinforcement
- Suitable for use in vertical and overhead applications

Colour	Concrete grey (mixed) Comp. "A": Light gray Comp. "B": Dark gray
Mixing ratio	A : B = 3.0 : 1.0 by weight or volume
Density (at 25 °C)	1.750 kg/l (mixed)
Bonding strength	> 3.5 MPa (Concrete failed)
Compressive strength	60 MPa (7 days)
Flexural strength	> 30 MPa
Service temperature	-35 to +65 °C
Full cured	After 7 days (at 25 °C)
Working Time / Pot life	60 min. (25 °C)



PADRA-Poxy GEP-315

HOW TO USE

Surface preparation	The substrate must be sound and free of loose particles. Remove dust, laitance, oil, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials, and other bond inhibiting materials from the surface. Surface can be prepared by blasting methods, grinding, or chipping. Substrate must be dry with no standing water.
Mixing	Mix each component separately. Add component "B" to Component "A" and mix them thoroughly using a low speed drill (max. 300 rpm) and suitable paddle for at least 2 minutes or until all striations have disappeared and a uniform colour is obtained. For partial mixing, proportion 1 part of component "B" to 2 parts of component "A" by weight or volume into a clean pail. Mix only that quantity which can be used within its pot life.
Priming	Dry and moist surfaces require no primer or bonding layer. For wet surface with no standing water, use PADRA-Poxy EBL-313 as bonding layer.
Application method	Thoroughly mixed PADRA-POXY GEP-315 should be applied in a thickness of minimum 0.5 mm on substrate using a trowel, spatula, or knife. For smooth finishing, use a paint brush dipped in an approved solvent or using a trowel the minimum solvent or water on it.
Material consumption	PADRA-Poxy EBL-313 (if required): 250 to 400 g/m ² , depending on surface. PADRA-POXY GEP-315: Approximately 1.750 kg/ m ² for 1 mm layer thickness.
Application limits	Minimum layer thickness: 0.5 mm Maximum layer thickness: 10.0 mm Do not apply PADRA-POXY GEP-315 at temperatures below 5 °C. Do not thin PADRA-POXY GEP-315 by solvent. Solvent will prevent proper cure. Minimum age of concrete must be 21~28 days, depending upon curing and drying conditions.
Cleaning	Uncured material can be removed with approved solvent. Cured material can only be removed mechanically.

Storage / Shelf life

Store out of direct sunlight, and protected from extreme heat and rain fall. The shelf life for originally unopened package is 12 months from date of production.

Packaging

PADRA-Poxy GEP-315 is available in 4 and 10 kg pails.

Safety precautions

Product may cause skin irritation. Wear gloves and goggles. In contact with eyes or mucous membrane, flush immediately with plenty of warm water and seek medical attention without delay.

Uncured products should be prevented from entering local drainage system and water sources. Spillage must be collected using absorbent materials such as sawdust and sand. Dispose of in accordance with local regulations.

