

# PADRAPAT PARS

## Products for Repair



## PADRA-Epochem EMM-327

### Epoxy modified cementitious repair mortar

#### DESCRIPTION

PADRA-Epochem EMM-327 is a multicomponent, non-shrink, fiber reinforced, and epoxy modified cementitious repair mortar based on emulsion epoxies.

#### WHERE TO USE

PADRA-Epochem EMM-327 is a general purpose and glass fiber reinforced repair material based on epoxy modified cementitious mortar which does not shrink while curing and provides excellent bonding to dry and wet mineral construction materials. PADRA-Epochem EMM-327 can be used in the followings:

- Repairing concrete honeycombs
- Repairing pop outs
- As a gap filling mortar
- As leveling and bedding layer on surfaces to be received external reinforcement

#### ADVANTAGES

PADRA-Epochem EMM-327 has following advantages:

- Excellent adhesion to concrete and most construction materials
- Moisture tolerant before, during, and after cure
- Good early and final mechanical strengths
- Good chemical resistance
- Modulus of elasticity and coefficient of thermal expansion close to concrete
- Color coded components to ensure proper mixing control
- Excellent adhesion to wet surfaces
- Easy to use and low odour
- Permeable to water vapour (allows substrate to breath)
- Thixotropic, dose not sag when applied vertically
- Does not shrink while curing
- Will not corrode reinforcement
- Can be over-coated with epoxy resins within 24 hours

#### TECHNICAL INFORMATION

<b>Color</b>	Concrete grey (mixed) Comp. "A": Amber liquid Comp. "B": White liquid Comp. "C": Gray powder
<b>Mixing ratio</b>	A : B : C = 1.00 : 1.25 : 7.75 by weight
<b>Density (at 25 °C)</b>	2.350 kg/l (mixed)
<b>Bonding strength</b>	> 4.5 MPa (Concrete failed)
<b>Compressive strength</b>	23 MPa (3 days) 38 MPa (7 days) 50 MPa (28 days)
<b>Flexural strength</b>	> 3 MPa (7 days) > 8 MPa (28 days)
<b>Service temperature</b>	-50 to +150 °C
<b>Full cured</b>	After 28 days (at 25 °C)
<b>Working Time / Pot life</b>	30 min. (25 °C)



# PADRA-Epoxy EMM-327

## HOW TO USE

<b>Surface preparation</b>	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, water jet, grinding, or chipping. Wet the substrate to saturated surface dry (SSD).
<b>Mixing</b>	Shake component "B" separately. Add component "B" to Component "A" and mix them thoroughly for at least 30 seconds or until all striations have disappeared and a uniform color is obtained. Pour binder mixture (A+B) into suitable bucket and add component "C" under continuous stirring. Mix them thoroughly using a low speed drill (max. 400 rpm) and suitable paddle for at least 2 minutes. Avoid air entrainment during mixing.
<b>Priming</b>	Generally, no primer is required. For very porous or loose substrate use PADRA-Epoxy EMB-323 as a bonding layer. Substrate must be saturated surface dry (SSD) with no standing water.
<b>Application method</b>	Thoroughly mixed PADRA-Epoxy EMM-327 has to be applied before the substrate surface or bonding layer dried (wet on wet) on substrate. Apply PADRA-Epoxy EMM-327 using a trowel, spatula, or knife and pushed to well compaction. As soon as the repair mortar has started to set, the surface may be finished with a clean and pre-wetted trowel. For layer thickness higher than 50 mm, PADRA-Epoxy EMM-327 must be applied in several layers with 2~4 hours interval between layers. Immediately after application mortar should be kept moist, especially if it is exposed to sunshine or wind. Normal curing procedures for cement mortars should generally be observed. For a fine surface finish, PADRA-Epoxy EMM-327 can be over-coated with PADRA-Epoxy EMP-325.
<b>Material consumption</b>	PADRA-Epoxy EMB-323: 750 to 1000 g/m <sup>2</sup> , depending on surface. PADRA-Epoxy EMM-327: Approximately 2.350 kg/m <sup>2</sup> for 1 mm layer thickness.
<b>Application limits</b>	Minimum layer thickness: 5.0 mm Maximum layer thickness: 50.0 mm Minimum substrate temperature: 5 °C Maximum substrate temperature: 35 °C
<b>Cleaning</b>	All working tools can be clean with water. Cured material can only be removed mechanically.

## Storage / Shelf life

Store out of direct sunlight, and protected from extreme heat and rain fall. Store in dry conditions and at temperatures above 5 °C. The shelf life for originally unopened package is 12 months from date of production.

## Packaging

PADRA-Epoxy EMM-327 is available in 20 kg set (A+B+C).

## Safety precautions

Product may cause skin irritation. Protect skin and eyes from contact with fresh mortar. 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.

