

PADRAPAT PARS

Products for Repair



PADRA-Patch LCB-333

Latex modified cementitious bonding layer

DESCRIPTION

PADRA-Patch LCB-333 is a two-component, non-shrink, and latex modified cementitious bonding layer. When mixed properly, produces thixotropic slurry with excellent workability and good adhesion characteristics.

WHERE TO USE

PADRA-Patch LCB-333 is a non-shrink and slurry consistency bonding layer based on latex modified cementitious mortar technology. PADRA-Patch LCB-333 provides excellent adhesion to dry and wet mineral construction materials. PADRA-Patch LCB-333 is suitable as a bonding primer as part of a concrete repair system and can be used in the followings:

- As a bonding layer for cement-base substrates and cementitious repair mortars.
- Suitable as reinforcement corrosion protection as part of a concrete repair system.
- Protection of dowel bars subject to environment for long time..
- As injection material for repair of cracks with width larger than 2 mm.
- As a protecting thin layer on concrete surface subjected to water containing chlorides and sulfates.

ADVANTAGES

PADRA-Patch LCB-333 has following advantages:

- Easy to use.
- Easy and user-friendly application
- Excellent workability with good thixotropic characteristics
- Good mechanical strengths
- Good adhesion to concrete and steel
- Can be applied by brush or spray
- Excellent compatibility with cement base substrates and repair mortars.
- Non corrosive, non-toxic
- Permeable to water vapour (allows substrate to breath)
- Does not shrink while curing
- Modulus of elasticity and coefficient of thermal expansion similar to concrete

TECHNICAL INFORMATION

Color / Appearance	Light gray slurry (mixed) Comp. "A": Milky liquid Comp. "B" : Gray powder
Mixing ratio	A : B = 7.0 : 18.0 by weight
Density	2.100 kg/l (Fresh slurry)
Bonding strength	> 3.5 MPa (Concrete failed)
Compressive strength	18 MPa (3 days) 27 MPa (7 days) 35 MPa (28 days)
Flexural strength	> 3.0 MPa (7 days) > 5.0 MPa (28 days)
Service temperature	-50 to +150 °C
Full cured	After 28 days (at 25 °C)



PADRA-Patch LCB-333

HOW TO USE

Surface preparation	The substrate must be sound and free of loose or weak 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).
Mixing	Pour liquid (component A) into the mixing vessel. Add powder (component B) while mixing continuously. Mix thoroughly using a low speed drill (max. 400 rpm) and suitable paddle for at least 2 minutes. Avoid air entrainment during mixing. By adding powder in portions, the desired application consistency can be obtained.
Application method	Wet down the prepared substrate (concrete) to saturated surface dry (SSD) condition. Then apply a bonding coat of thoroughly mixed PADRA-Patch LCB-333 not less than 0.5 mm thickness, using a paintbrush, roller, or suitable spray gun. For best results, work the bonding slurry well into the substrate to ensure complete coverage of surface irregularities. Apply the freshly mixed repair mortar wet on wet to the bonding slurry.
Material consumption	As bonding slurry: 750 to 1000 g/m ² , depending on surface. As corrosion protection coating: Approximately 2.100 kg/m ² (1 mm layer thickness).
Application limits	Minimum application temperature 5 °C Maximum application temperature 35 °C
	Note: Never ever use PADRA-Patch LCB-333 as bonding layer for epoxy or epoxy-modified materials.
Cleaning	Application and mixing tools should be cleaned with water while material is still fresh. Hardened material can only be removed mechanically.

Storage / Shelf life

Store under cover and out of direct sunlight with temperature not less than 5 °C. Protect from extreme heat and rain fall. Avoid excessive compaction. The shelf life for originally unopened package is 12 months from date of production.

Packaging

PADRA-Patch LCB-333 is available in 25 kg set (A+B).

Safety precautions

Product is caustic (cement). 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.

This product should be handled carefully to minimize dust formation during mixing. Use a light mask if excessive dust is unavoidable. Dispose of in accordance with local regulations.

