

EPOXIGROUT 204 – Epoxy Injection Resin

DESCRIPTION

EPOXIGROUT 204 is a 2-component solvent-free, non-pigmented epoxy resin compound with low viscosity.

USES

- Structural repair of cracked concrete by injection
- Repair and filling of small hairline cracks in reinforced concrete structures
- Sealer for cement-based surfaces

ADVANTAGES

- Low viscosity
- Virtually impermeable therefore protecting the concrete against carbonation
- High compressive and tensile strength
- High slant shear bond strength
- Resistant to wide range of chemicals

METHOD OF USE

Surface preparation

The substrate to be treated must be sound, dry and free from any contaminants which may prevent good adhesion.

If necessary, the surface should be prepared by mechanical means.

When used as a primer/sealer, the maximum moisture content of the substrate should < 4%, and pull-off strength of pre-treated substrate should be >1.5 N/mm².

Mixing

Stir the individual components of EPOXIGROUT 204 thoroughly.

Pour both components into a mixing vessel and mix for approximately 5 minutes using slow-speed drill and paddle until a homogeneous mixture is obtained.

Transfer the contents to a clean container and re-mix. Use the product as quickly as possible after mixing.

Application

Prepare surface by removing laitance, dust, paint, skim coat etc, along the crack for a width of approximately 50mm.

Attach the injection nipple by applying a bead of Epoxy Crack Sealer on the back and then stick it a approximately 300mm c/c along the crack.

Sealing of Cracks

- Seal the remaining parts of the cracks with Epoxy Crack Sealer, It should be applied in strips of approximately 50mm width and 2mm thickness along the length of the crack.
- Allow the sealer to cure overnight.

Injection

- Begin injection at the lowest nipple upward or from one end of the crack if it is horizontal.
- Once EPOXIGROUT 204 has fully cured/hardened, remove the injectors and sealer by grinding.

Cleaning

Tools must be cleaned immediately after use with thinner.

GROUTS AND REPAIR MORTAR

HANDLING

Store the product in cool dry condition.

SAFETY PRECAUTIONS

Avoid contact with the skin and eyes. In case of contact with skin and eyes, rinse immediately with plenty of water and soap, and seek medical advice. Wear suitable gloves and eye protection. Avoid inhaling vapours and ensure good ventilation when working in a closed environment.

PACKING

EPOXIGROUT 204 is available in 4 kg set.

SHELF LIFE

The shelf life for EPOXIGROUT 204 in unopened and undamaged packaging is 12 months.

SPECIFICATIONS	
Mixing Ratio A:B	3 : 1 (by weight)
Density	1.06 g/cm ³
Solids Content	100%
Viscosity (ASTM D445)	4.0 Poise
Curing @23 ^o C	
• Tack-free	6 hours
• Retouchable	24 hours
• Overcoat	24 hours
• Full cured	7 days
Adhesive strength on concrete after 7 days	Concrete failure
Compressive Strength (ASTM C579)	65 N/mm ²
Slant Shear bond Strength (ASTM C882)	16.8 N/mm ²
Flexural Strength	40 N/mm ²
Shore D Hardness	85
E Modulus	2400 N/mm ²
Coefficient of thermal expansion	7.5 x 10 ⁻⁵ /K
Elongation at break	4%
Temperature for application	
• Minimum	+ 15 ^o C
• Maximum	+ 45 ^o C
Working Life	
• 10 ^o C	3 hours
• 23 ^o C	2 hours
• 30 ^o C	1 hour

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