

EMBED 301R

Microfume Polymer Patch Repair Mortar

GENERAL DESCRIPTION

AXEL EMBED 301R is a single component polymer modified thixotropic high build cementitious base repair mortar specially premixed and graded for patching repair and grouting purposes. AXEL EMBED 301R exhibits high bond and flexural strength and has excellent compressive properties under impact.

RECOMMENDED USES

- * Fast repairs to horizontal or vertical concrete or mortar surfaces above and below ground level.
- * Filling or repair mortars for voids, honeycombed areas and etc.
- * Repair of spalled concrete caused by reinforcement corrosion.
- * Repairs with improved resistance to oils, sewerage, chemicals and etc.

CHARACTERISTICS & ADVANTAGES

- * Fast and easy to apply
- * High bond strength
- * Improved resistance to oils and chemicals
- * Premixed, only require the addition of water
- * Compatible with the thermal expansion properties of concrete
- * Non-toxic and non-corrosive to reinforcing steel

COVERAGE

Recommended application thickness:

- * Minimum 3 mm
- * Maximum 20 mm (vertical application)

COLOURS

Cement Grey

PACKING

25 kg per bag

STORAGE

Store in a dry, cool and shaded place



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SURFACE PREPARATIONS

All surface laitance and unsound concrete must be chipped away so that a reasonably rough but strong sound surface is provided. All surfaces must be free from oil, grease, dust, this particularly applies to the underside of bed plated, bolts, pipes or other materials which may have surface contact with grout. After cleaning, saturate the concrete surfaces with clean water for approximately 6 hours prior to applying **AXEL EMBED 301R**. Ensure that no free standing water is present on surfaces of foundations or in bolt holds before applying **AXEL EMBED 301R**.

METHOD OF APPLICATION

- * **AXEL EMBED 301R** should be mechanically mixed in a clean drum using a drill and a paddle. A normal concrete mixer is not suitable.
- * Place 3.4 to 3.5 litres of clean water into a clean drum and add the **AXEL EMBED 301R** slowly while mixing. A mixing time of 3 minutes is recommended.
- * Brush apply a bond coat onto the saturated surface dry substrate. Then, working wet on wet, work the mixed mortar well into the substrate, using a rendering rather than placing technique to fill all pores and voids. Compact well. Force material against the edge of the repair, working towards the center. Steel trowel the final coat if required.
- * The **AXEL EMBED 301R** and surrounding areas can be further treated with **AXEL AQUASHIELD 100** or **AXEL POLYMER- CRETE 206L** to provide a water and carbonation resistant finish.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened or cured material can only be mechanically removed.

TECHNICAL SPECIFICATIONS

No. of component	One
Total solids	100 %
Mixing ratio	3.4 to 3.5 litres water / 25 kg Embed 301R
Compressive strength (based on mix design 3.5 litres water /25 kg Embed 301R – 50mm cubes restrain)	1 day > 10 Mpa 28 days > 40 Mpa
Flexural strength	28 days > 10 Mpa
Bond strength (on concrete)	≥ 1.5 Mpa (with bonding bridge)
Pot life (28°C)	30 minutes
Initial setting time	3-4 hours (depend on temperature and humidity)

SHELF LIFE

6 months from the date of production if stored properly in original, unopened and undamaged sealed packaging in dry conditions.

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