

EMBED 301

Microfume Non-Shrink Cementitious Grout

GENERAL DESCRIPTION

AXEL EMBED 301 is an expanding non-ferrous grout. It consists of a dry premixed blend of graded Portland cement, siliceous aggregate with set regulating reactive chemical agents and micro-fume inorganic matters.

RECOMMENDED USES

Use as grouting for:

- * Machine bases
- * Column bases
- * Column bases (steel & pre-cast concrete) anchor

CHARACTERISTICS & ADVANTAGES

- * Controlled expansion, ensuring positive surface contact
- * No corrosive effect caused by metallic residue
- * No rusting or staining on exposed edges
- * Premixed, only require the addition of water
- * Contains no calcium chloride

COVERAGE

Theoretical coverage: Not applicable

COLOURS

Cement grey

PACKING

25 kg per bag

STORAGE

Store in a dry, cool and shaded place

CLEANING OF TOOLS

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



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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, and 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 301**. Ensure that no freestanding water is present on surfaces of foundations or in bolt holds before applying **AXEL EMBED 301**.

METHOD OF APPLICATION

- * Use mechanical mortar mixers; preferably of the paddle or revolving drum type. Hand mixing rarely achieves the desired results.
- * Allow approximately 5 minutes slow speed mixing. Thorough mixing is essential for achieving maximum results.
- * **AXEL EMBED 301** grout should be placed within 30 minutes of mixing. During that time keep material in mixer well agitated. After 30 minutes, discard any grout mix that shows sign of stiffening. Flowable mix grout may be used with low-pressure cement grout equipment or may be hand rotted into restrained sections. High points must be adequately vented to entrap air to escape.
- * Concerning workability and strength. It recommended that trial mixes be conducted to determine the exact water dosage rate required.

TECHNICAL SPECIFICATIONS

No. of component	One
Specific gravity (fresh mix)	~2.2kg/l
Total solids	100 %
Mixing ratio	<u>Mix design</u> Flowable – 4 to 4.5 litres water / 25kg grout Pourable – 3.6 to 4 litres water / 25 kg grout Dry pack – 3 to 3.4 litres water / 25 kg grout
Compressive strength	<u>Dry pack mix</u> <u>Pourable</u> 1 day > 25 Mpa 1 day > 15 Mpa 7 days > 45 Mpa 7 days > 35 Mpa 28 days > 60 Mpa 28 days > 50 Mpa
Flexural strength	> 5 Mpa
Pot life (28°C)	30 minutes
Expansion	0.5% expansion at 24 hours
Initial setting time	3-5 hours depend on mix design

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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