



FIXGROUT EXPAN

CEMENT BASED, HIGH STRENGTH NON-SHRINK GROUT

- High compressive strength
- Early compressive strength
- Non-shrinking. Non-contracting
- Resistant to water, constant humidity, frost and extreme weather conditions

DESCRIPTION

FIXGROUT EXPAN is a single component, cement based non-shrinking grout.

TYPICAL APPLICATIONS

- Fixing reinforced concrete structural components,
- Retaining wall and column headings,
- Filling gaps between existing and fresh concrete,
- Bedding bearing elements and plates,
- Fixing steel columns on concrete,
- Fixing rebars and anchorage bars to concrete,
- Filling gaps around installation pipes and elements,
- Filling tie-rod holes and core holes,
- Anchoring machine bases,
- Repair and maintenance of marine structures.

ADVANTAGES

- High compressive strength.
- High bonding strength on concrete and reinforcements.
- Water resistant.
- Resistant to freeze/thaw cycle.
- Resistant to chlorine and sulfate attacks.
- Resistant to oils.
- Non-shrinking.

TECHNICAL PROPERTIES

Colour: Grey

Appearance: Powder

Mortar Density: 2,15 ± 0,05 g/cm³

Application Temperature: +5 °C - +35 °C

Application Thickness: max. 30 mm

Pot Life: 30 min.

Time Required To Be Operational: 24 hours

Service Temperature: -30 °C - +80 °C

Compression Strength (EN 12190)

: > 35,0 N/mm² (1st day)

: > 70,0 N/mm² (7th day)

: > 80,0 N/mm² (28th day)

Bending Strength (EN 12190)

: > 6,0 N/mm² (1st day)

: > 9,0 N/mm² (7th day)

: > 10,0 N/mm² (28th day)

Concrete Bonding Strength (EN 1542): > 2,0 N/mm

Capillary Water Absorption: < 0,5 kg/m² h^{0.5}

Above given values are valid for 23 °C ve 50% relative humidity.

Reference Standards

EN 1504-3/R4 and EN 1504-6

Public Works Pos. No: 04.613/3-c

DIRECTIONS FOR USE

SURFACE PREPARATION

- Application surface should be clean, and free from dirt, oil, paint, loose particles, mortar and plaster residues.
- Saturate the surface with water, but any standing water must be removed before **FIXGROUT EXPAN** is applied.

- In order to achieve better mortar adhesion, chip cavities into full square or dovetail sections prior to **FIXGROUT EXPAN** application.
- Minimum acceptable depth is 6 mm. Maximum recommended depth for toppings is 50 mm.

MIXING

- Add 20 kg **FIXGROUT EXPAN** into 3.1 lt of water and mix slowly using a low speed mixer for 3 to 5 minutes until a lump free homogenous mixture is achieved.
- Rest the mixture for 1 to 2 minutes, and then mix again thoroughly before use.
- Apply the mixture with a trowel.

CURING

- Immediately proceed with curing after the application. Curing process shall continue under normal temperature conditions for 7 days. This will prevent early drying shrinkage and help to develop strength, durability and other desired properties.
- Any deficiencies in the method of curing may also reduce the amount of initial expansion, which is needed to offset drying shrinkage. Using **INTERCURE** curing agent is strongly recommended. Otherwise it is required to keep the application damp during the curing period.
- Protect **FIXGROUT EXPAN** from extreme climatic changes during curing period.

WATCHPOINTS

- The mixture should not be retempered by any addition of powder or water.
- Application below +5 °C is not recommended.
- Do not vibrate.
- Cure properly.

CONSUMPTION

20 kg of **FIXGROUT EXPAN** will yield approx. 10 lt of mortar.

PACKAGING

20 kg craft bag.

STORAGE AND SHELF LIFE

Store in cool and dry places. Shelf life is 12 months if stored as recommended.

HEALTH AND SAFETY

As with all chemical products care should be taken during use and storage. Avoid contact with food, skin, clothes, eyes and mouth. If accidentally ingested seek immediate medical attention. In case of contact with skin or eyes, wash with a plenty of water and soap. Should be kept away from children. Reseal containers after use. Please consult Material Safety Data Sheet (MSDS) for further information.

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