



HYFIX EXPAN

NON-SHRINK WATERPROOFING REPAIR MORTAR

- High early strength (24 hours)
- Non-shrink mortar with excellent bonding strength
- Reacts with water to form a continuous waterproofing barrier

DESCRIPTION

HYFIX EXPAN is a waterproof, non-shrink repair mortar with high early strength, used for filling tie-rod holes, beveling applications and segregation repairs for concrete elements exposed to water.

TYPICAL APPLICATIONS

- Waterproofing of tie-rod holes
- Segregation repairs on concrete bearing walls
- Fillets and riglets of vertical and horizontal cold joints
- General repairs (cavities/voids/plugs/etc.) for concrete elements exposed to water

ADVANTAGES

- High strength build up in less than 24 hours.
- Non-shrink, provides excellent bonding onto the application surface.
- Does not require a primer, provides ease of application.
- Becomes active with water and forms an impermeable waterproofing barrier.

TECHNICAL PROPERTIES

Density: 2.13 ±0.05 kg/lit

Initial Set: 40 minutes

Pot Life: 20 minutes

Application Temperature : (+5)°C to (+40)°C

Mix Ratio: 2.7 lt / 20kg

DIRECTIONS FOR USE

SURFACE PREPARATION

- Application surface should be clean and free from dirt, oil, paint, loose particles, mortar and plaster residues.
- Repair all concrete defects thoroughly until sound substrate is achieved. It is recommended to chip and provide right angled edges (riglets) to obtain better bonding.
- Saturate the surface with water, but any standing water should be removed.

APPLICATION

- Add 1 bag of **HYFIX EXPAN** (20 kg) into 2.7 lt. of water (13.5% by weight) and mix slowly using a low speed mixer for 3 to 5 minutes until a smooth, lump free mixture is achieved. Rest the mixture for 1-2 minutes and mix before use.
- Tie-Rod applications: Remove the plastic cap with a mechanical tool and saturate thoroughly with clean water prior to filling.
- Drive adequate amount of the mixture into the hole with gloved hand pressing firmly to make sure that the hole is filled properly. Repeat if necessary to fill the hole thoroughly.
- For patching applications; (ie: cold joints, cavities/cracks wider than 0.5mm, deep segregations etc).
- Cut open the cavity into a square section with sharp edges minimum 3 cm deep dampen the section with enough water, and then patch the cavity with an adequate amount of **HYFIX EXPAN** paste working with

a trowel thoroughly and uniformly. For cold joints at junctions of perpendicular elements, form fillets.

CURING

- **HYFIX EXPAN** must be immediately cured with sprayed clean water. This procedure must continue for at least 3 days. Curing will activate the waterproofing chemicals and enhance mechanical properties of **HYFIX EXPAN**.

WATCHPOINTS

- Recommended mix ratio should be followed strictly.
- The mixture is initially of a more rough state however during the mixing process intended paste state will be reached. Do not add water/powder.
- If the ambient temperature is below +5°C, do not perform the application.
- Surface should be saturated thoroughly with clean water before application, but any standing water should be removed.
- Water-curing should be carried on for at least 2 to 3 days after application.

CONSUMPTION

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

PACKAGING

20 kg craft bag

STORAGE AND SHELF LIFE

Store in dry and cool locations. Shelf life is 12 months under suitable storage conditions.

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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