

TEKNOLEVEL FS

Waterproof Levelling Mortar

DESCRIPTION

TEKNOLEVEL FS is a thixotropic polymer enhanced cementitious levelling mortar suitable for filling small voids and defects in concrete and masonry substrates to provide a consistent fair-faced finish. It's dense matrix formulation ensures that the hardened mortar is resistant to the ingress of water, chlorides, and other chemicals. It's unique formulation consisting of microfibers and hybrid polymers ensures the integrity of the mortar even in thin sections.

USES

TEKNOLEVEL FS is used as a high performance thin-section levelling mortar and fairing coat. It is used for the repair of minor defects and un-even substrates to provide a good quality fair-faced finish. When applied to concrete it provides a waterproof and chloride resistant finish. It is also suitable for the reinstatement of effective cover to embedded reinforcement to protect against carbonation attack.

ADVANTAGES

- Excellent adhesive bond to substrate, ensures the integrity of the repair.
- Suitable for application to vertical, horizontal, and overhead substrates.
- Excellent resistance to water and chlorides.
- Excellent workability to enable a fair-faced finish to be achieved.
- Primerless application requiring only the saturation of the substrate with water.

Property	Value
Colours	Cement Grey
Pot life @ 20°C	30mins
Application Temperature	7 – 35°C
Density	1860kg/m ³
Compressive Strength	23MPa @ 24hrs 60MPa @ 28days
Flexural Strength	10.5MPa
Water Permeability	6.94 x 10 ⁻¹⁶ m/sec
Oxygen Diffusion	4.90 x 10 ⁻⁵ cm ² /sec

COMPLIANCE

- TEKNOLEVEL FS is certified by the British Board of Agrément.
- Complies with highways agency standard BD27/86 for the repair highway structures and bridges.
- Suitable for use in drinking water applications as defined by regulation 31.

PROCEDURE

Surface Preparation: All loose and damaged concrete should be carefully removed back to sound substrate. Any steel reinforcement within the area should be fully exposed around the full circumference of the bar. Exposed steel reinforcement should be cleaned back to bright steel, by means of grinding or grit blasting. Any surface contaminant should be removed by suitable means to ensure a good quality, clean substrate that has a compressive strength in excess of 25MPa.

Substrate Priming: Typically, substrates do not require the use of a separate substrate primer. The substrate should just be fully saturated with water, taking special care to ensure no standing water is



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present before application of the mortar. Particularly porous substrates may require the use of TEKNOPRIME 842 if they are not subject to contact with potable water. Exposed steel reinforcement should be primed using TEKNOPRIME 841.

Mixing: TEKNOLEVEL FS should be mixed with approximately 3ltrs of clean water using a forced action paddle mixer until a uniform consistency is achieved. Up to 3.2ltrs of water may be added depending on the desired consistency. If the mortar is to be used as a thin section levelling screed then typically the powder should be mixed with 2.8ltrs of clean water per bag. Once mixed the mortar should be placed immediately.

Application: TEKNOLEVEL FS should be applied to minor defects and honeycombing in the concrete using a suitable trowel or palette knife. If large areas are to be repaired or coated, then the mortar should be worked thoroughly into the substrate to ensure that an intimate bond is achieved. The mortar can then be finished using a steel or wooden float to achieve the desired surface finish. The surface should not be over worked, otherwise delamination or surface cracking will occur. TEKNOLEVEL FS should be applied at a maximum thickness of 6mm. If greater thicknesses are required, then the first coat should be allowed to stabilize before applying this subsequent layer. Primer is not required between layers.

Equipment Cleaning: Tools and mixing equipment should be cleaned immediately after use with clean water.

Curing: Due to its thin section application TEKNOLEVEL FS, if applied in external conditions exposed to the elements, should always be cured with PREMCRETE CUREAID AC immediately once the finishing of the surface has been completed. The surface should be protected from direct sunlight and wind and ideally be covered with membrane to protect it from premature drying.

PACKAGING

Pack Size: 25kg

Yield: 15ltr per pack

Coverage: a 25kg bag will cover 5m² at 3mm thick

STORAGE & SHELF LIFE

TEKNOLEVEL FS should be stored in damp and frost-free conditions.

HEALTH & SAFETY

See separate material safety datasheet.