



Polymer Modified–Fiber Mortar For repairs and Sewage Works

Description

Poly Mortar is a ready to use mortar consists of special cement, selected oven-dried sand, Polypropylene fibers and special additives with polymer. The cured mortar will give high mechanical strength, very low permeability, corrosion resistance and excellent bonding to substrate. It is suitable for repair and protection concrete structure ie slab, wall, beam and column etc.

Typical uses

- High mechanical strength
- Sulphate and chloride resistance
- Shrinkage compensate
- Low permeability
- Corrosion resistance to sewage water
- Thick application up to 40 mm. for wall and 20 mm. for ceiling
- Excellent bonding to concrete

Uses

- Repair reinforced concrete members
- Coating concrete structures in aggressive environment eg, tunnels, sewers, pipe for corrosion protection
- Protect concrete in marine environment

Instruction for Uses

Substrate Preparation

Concrete surface must be sound and clean, free from oil, curing compound, laitance or weak materials. Thoroughly saturated with water. Avoid feather edging, saw cut the repaired surface and chip down at least 20 mm. Smooth surface should be roughened to achieve mechanical bond.

Mixing

Mix 1 bag (20 kg) of **Poly Mortar** with 3.75 – 4.25 litres of water by low speed drill (400 rpm.) or mortar mixer approximately 3-5 minutes until an homogeneous consistency is obtained.

Curing

Cure **Poly Mortar** as soon as possible by water or Durcure or plastic sheet

Storage

Keep **Poly Mortar** in cool and dry place

Shelf life

Minimum 6 months in original bag.

Packaging

25 kg in sealed paper bag.

Technical Data

Compressive Strength ASTM C 109-95	16 N/mm ² 1 day 35 N/mm ² 7 days 45 N/mm ² 28 days
Flexural Strength ASTM C 348-95	7 N/mm ² 28 days
Bond Strength ASTM C 882-91	> 3 N/mm ² 28 days
Drying Shrinkage ASTM C 490-92	> 0.05 %
Water Absorption ASTM C 642-90	4 %
Fresh wet Density	Approx. 2.1
Appearance	Grey powder
Consumption	19 kg/m ² at 1 cm. thickness