

ISO REPAIR 6000

Product Data Sheet (TDS)

DESCRIPTION

ISO REPAIR 6000 is a one-component, rapid-hardening, fine-textured cementitious skimming mortar made from special binders, selected fine aggregates and special admixtures.

When ISO REPAIR 6000 is mixed with water it forms a mortar with good adhesion which is easy to apply with a spreader, which is suitable for general purpose interior or exterior concrete and masonry repairs in vertical and overhead applications.

ISO REPAIR 6000 is specially formulated to produce a shrinkage compensated mortar giving a smooth finish with excellent adhesion and excellent resistant properties against water and salts.

USES

- Pore sealer / finishing mortar on cementitious substrates.
- Repair of damaged, weak or de-bonded concrete.
- Repair of honeycombed concrete.
- Repair of R.C.C. sections after de-shuttering.
- Patchwork repair on horizontal, vertical and overhead surfaces.
- Replacement of concrete suffering from attack by carbonation, chlorides, and sulfates.
- Ideal as a smooth layer under paint.
- Replacement of spalled or mechanically damaged concrete.

ADVANTAGES

- Easy to use.
- Excellent workability.
- Extra reinforced strength due to the presence of fiber.
- Best for high build applications.
- Suitable in marine and industrial conditions.
- Prevents the corrosion of steel reinforcement in concrete.
- Water and salts resistant.
- It can be applied by trowel, pump or spray.



PRODUCT & TECHNICAL DATA

Composition	Cementitious mortar
Appearance / Colour	Gray
Density (Mix)	1.44 g/cm ³
Application Temperature Range	(+5 °C) – (+35 °C)
Mixing ratio	7 - 8 L of water per 25 kg bag
Compressive Strength (ASTM C109)	28 days ~ 15 N/mm ²
Tensile adhesion strength 28 days (ASTM C1583)	>1.5 MPa
Consumption	1.55 kg/m ² /mm
Layer Thickness	1 mm - 3 mm

APPLICATION PROCEDURE

Surface preparation

The surface of the concrete to be repaired should be sound, clean and uncontaminated. The decayed or damaged area should be saw cut, keeping the sides of the area as square as possible.

Loose materials must be removed carefully using adequate preparation techniques, such as water-jet washing, blastcleaning, sharp tools or chipping hammer.

If the reinforcement is corroded make sure that the back of the steel is completely exposed. Then clean the steel to bright metal condition.

For applications in hot climates or on absorbent substrates, thoroughly pre-dampen the surface immediately prior to the product application, but avoid any ponding / standing water on the surface, which must not be damp to touch i.e., it must be saturated surface dry (SSD).

Priming

- Reinforcement steel: After cleaning, prime the clean reinforcement steel with suitable primer (ISOFLEX 1060 IS RECOMMENDED).
- Concrete: a bonding coat with ISOBOND S.B.R 1030 is advisable before placing ISO REPAIR 6000 to achieve an optimum bond in the fresh and cured sections. ISO REPAIR 6000 should be applied within the working time of the primer.

Mixing

Mix 25 kg bag of ISO REPAIR 6000 with the necessary, above mentioned, amount of cold water, using an electric blender with a suitable mixing spiral, in a clean bucket. Add ISO REPAIR 6000 powder slowly while mixing continuously for at least 3 minutes and until thoroughly blended (completely lump-free). Use a blender at low speed is recommended (400 rpm maximum), do not mix at faster rate because of mechanical strength decay of the cured product and to prevent entraining too much air into the mix.

Application

Whilst the primer is still tacky, apply the mortar mix and compact well. Spread a layer of mortar up to 3 mm thick on the prepared surface with a rubber or smooth metal spreader. Finish off the surface of ISO REPAIR 6000 with the same spreader or a damp sponge float a few minutes after application. ISO REPAIR 6000 can be applied to the desired thickness (1 - 3 mm) in layers on vertical and overhead surfaces. While applying multiple layers, the previous layer should be crosshatched and allowed to set before applying the next coat. During sunny or windy weather, or in particularly hot areas, spray water on the surface of the skim coat when it starts to set (when it is touch dry). Keep spraying water for the next few days until the mortar has completely hardened to prevent quick drying and hygrometric shrinkage causing the formation of cracks.

CURING

Ambient conditions may lead to rapid surface drying, the use of light water fogging for 48 hours or application of a suitable water based curing compound like ISO SMART CURING W 1035 is recommended.

CLEANING

Clean all the tools with water immediately after use. Hardened materials can be removed mechanically only.

PACKING

ISO REPAIR 6000 is supplied in paper bags of 25 kg.

SHELF LIFE

Shelf life is up to 12 months from production date when stored as per recommendations.

STORAGE

Product must be stored in original unopened, and undamaged sealed packaging in dry conditions, under cover, out of direct sunlight at temperatures between +5 °C and +35 °C. In tropical climates the product must be stored in air-conditioned environment.

HEALTH AND SAFETY

As with all construction chemical product, caution should be always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

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