

INSEE Mortar 62 Flex Proof

A 2-part Flexible Cementitious Waterproof Coating

INSEE MORTAR 62 Flex Proof

is a 2-part flexible cementitious waterproof coating with Acrylic Polymer Modified, INSEE Mortar 62 Flex Proof has ability to prevent leakage in cement plaster and concrete structure, in a ready-to-use form. Its high degree of cohesion, durability, and flexibility make it suitable for several water proof coating applications including swimming pool, terrace, bathroom, wet floors, water tank, water retaining structure, basement, and underground works.

Advantages

- Able to apply over small cracks
- High cohesion
- Prevent chloride permeability and carbonation reaction
- No toxic
- Usable in 24 hours after concrete sets
- High flexibility.
- Resistant to salt and frost
- Easy to use by brush or trowel
- Not require special surface preparation
- Suitable for waterproof coating damp underground floor
- Good air ventilation, making humidity inside structure evaporate to outside

Applications

Apply by brush, trowel, or sprayer machine on the surface at least twice, with thickness of 1- 2 mm

Mixing Ratio

Properties	Brush	Trowel
Component A 1 1 (Liquid) (5 kgs) (4.5 kgs)	1 (5 kgs)	1 (4.5 kgs)
Component B 3.6 4.5 (Powder) (18 kgs) (18 kgs)	3.6 (18 kgs)	4.5 (18 kgs)

Coverage

Set of INSEE Mortar 62 should approximately cover area of 11.5 m² at theoretical usage rate of 1 kg/m²/layer and at least 2 layers.



Packaging

23 kilogram/set

Component A – 5-kilogram liquid stored in plastic gallon.

Component B – 18-kilogram powder stored in bag.

Surface Preparation

1. The substrate must be cleaned from all dusts, oil stain, primers, bitumen, and other kinds of dirt. For primers and bitumen, they should be removed from the surface by sandblasting or specific cleaning tools.
2. Fix any crack or break on the substrate and chamfer the area between floor and room wall corner with appropriate fixing materials.
3. In case that the substrate has bitumen emulsion, worker must perform bond test. Broken concrete substrate should be cut out and repaired with appropriate materials.

Mixing

The product packed with both components ready to use in the appropriate proportion. Gradually and slowly pour the cement powder into the liquid. Blend them together with the mixer to make its texture homogeneous. Do not add water or rework into the already-set mix. Once the components are mixed, all of them should be used within 30-40 minutes.

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Technical Data

Properties	INSEE Mortar 62
Composition	
• Component A	White Liquid
• Component B	Grey Cement Powder
Color (After Mixed)	Grey
Density (After Mixed) kg/litre	1.90 ± 0.05
Working Time, under Ambient Temperature at 30 degree Celsius	30 minutes
Elongation (ASTM D412)	> 20%
Tensile Strength (ASTM D412)	> 1.0N/mm ²
Adhesive strength to Concrete Surface (ASTM D4541)	> 1.0N/mm ²
Toxicity (PWA Water Quality standard)	Non-Toxic
Working Temperature (degree Celsius)	5 - 40

Instructions

The substrate must be saturated surface-dry with no standing water. Apply the first layer of coating by brush or trowel while the surface is still damp. Ensure that each layer has minimum thickness of 0.5-1.0 mm at the rate of 1 kg/m²/floor. Leave it to dry for 2-6 hours.

Then apply the second layer of coating crosswise direction from the first layer. Spraying the coating is also possible, but adjustment of mixing ratio is required, to achieve the same result per use case. In case of using coating with fiber tape or waterproof tape, it is recommended to embed the tape into the first layer of coating before it complete sets. Then apply the second layer to completely cover the tape. Be careful not to leave any air bubble inside.

Curing

It should be prevented from having contact with wind and bright sunlight. After usage, keep it humid for at least 3-4 days and should be prevented from having direct contact with rain until it complete sets.

Storage & Shelf Life

Product in sealed packaging has a shelf life of 9 months since manufacturing date. Store it in a dry area with good air ventilation.

Precautions

- Keep out of reach of children.
- Avoid using in the area having direct contact with extreme sunlight.
- Avoid applying it on hot surface with temperature higher than 40 degree Celsius.
- This product is non-toxic and non-flammable, but it has alkaline property. Worker should wear gloves and safety glasses while working. If contact with skin, cleanse it by clean water. If contact with eye, worker must visit doctor immediately.