

INSEE Mortar 61 Flex Shield

Single component flexible cement based waterproof coating

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is a single component flexible cement based waterproof coating before tiling in bathroom, kitchen, terrace, swimming pool, waterproof surface protection in water tank, basement and water retaining structure

Advantage

- Waterproofing
- High Flexible and crack bridging up to 1.5 mm
- Withstand hydrostatic pressure both Negative and Positive side up to 1.5 bars
- Excellent bonding for various substrate i.e. concrete, plastic, wooden, metal
- Non-toxic

Applications

It is a single component flexible cement based waterproof coating. To use, mix the cement with water and apply by brush, roller or trowel on slightly or non-moving surface. Waterproof coating covers small cracks to prevent water leakage. Suitable for waterproofing of tiling in bathroom, kitchen, swimming pool, terraces and balconies, waterproofing portable water tanks, dams, basement, pond, fish pond, water storage and elevator pits.

Mixing Ratio

20 kg (1 bag) per 6 litres of clean water.

Coverage

20 kg (1 bag) apply by 2-3 kg/sq m/2 coats can cover an area approximately 8.7-13 sq m

Packaging

20 kg/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. The surface must be dampened. No freestanding water

Mixing

1. Prepare water as recommended
2. Pour 3/4 of water in to a container, using mixer at a speed of 400 - 600 rpm, slowly adding cement, continue mixing until the mixture homogeneous. Then add 1/4 of water, continue mixing about 3 minutes until it appears lump free
3. Must be used within 1 hour after mixing, avoid adding more water after setting

Instructions

1. Application by brush, roller or trowel. For general applications 2 coats of minimum 1 mm per layer is recommended. The estimated coverage is 1-1.5 kg/sq m per layer. Wait until the first layer is dry at least 1-2 hours or up to the weather condition before applying the second layer in the opposite direction
2. In case of using mesh tape or waterproof tape on the first layer, it should be embed before it dried out. Then, apply the second layer to cover the tape. Avoid air bubble

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Technical Properties

Detail	INSEE Mortar 61
Water demand by brush	Approx. 6 l/bag
Cement:Water by weight or volume	Approx. 3.3 : 1
Packaging	20 kg
Consumption rate	Approx. 2-3 kg/m ² /2 coats
Flexibility	> 100%
Pot life	60 minutes at 25°C
Shelf life	12 months
(Store in a sealed container in dry environments without water or moisture contact)	

Curing

Waterproof coating must be completely dry and hardened before over-coating or water contact. Recommended waiting time as following;

1. For tiling, allow surface to cure for at least 1 day or until fully dried
2. For water retaining structure, allow surface to cure for 7-14 days
3. For drinking water tanks, allow surface to cure for 14 days. Store water for at least 7 days then wash and rinse well before filling the tank with drinking water

Storage & Shelf Life

Product in sealed packaging has a shelf life of 12 months since manufacturing date. Store it in a dry area with good air ventilation.

Precaution

- Avoid applications in direct sunlight and heat to prevent rapid drying of the coating and cracks.
- Tools should be thoroughly cleaned with water before the material has set.
- Protect from rain for at least 1-2 days after application.
- Do not use high pressure washer. This may cause damage on the coated surface.
- Do not use corrosive substance cleaner.