

## Estopatch MP

### Cementitious Polymer Modified Repair Compound

#### Description

**Estopatch MP** is a single component shrinkage compensated pre-packed repair mortar to which water is added on site. It consists of specially blended non shrink cement, graded sand, fillers and chemical polymers to provide durable repair to concrete. The lightweight fillers allow application thicknesses of 40mm vertical and 25mm soffit without formwork.

**Estopatch MP has been tested by Testech Sdn Bhd in accordance to BS 6319 on Compressive Strength Test, and complied with the specification in this data sheet.**

#### Uses

**Estopatch MP** is recommended for use as a general patch repair mortar in vertical or soffit repair applications.

It is suitable for repairing, rendering, patching bedding and pointing of concrete, block-work, brickwork & masonry.

#### Advantages

**Estopatch MP** is specially design for the following applications: -

- Medium to high build application
- Convenient, one pack product
- Shrinkage compensated, can be applied over large areas without cracking or de-bonding.
- Composition ensures excellent adhesion
- Water tightness, special additives ensure optimum density and water repellence of cured surfaces.

#### Standards Compliance

- **BS 6319**
- **BS 5075**

#### Physical Properties

Compressive Strength (N/mm <sup>2</sup> ) BS 6319 : Part 2	
1 day	> 20
7 days	> 30
28 days	> 40
Flexural Strength (N/mm <sup>2</sup> ) BS 6319	
28 days	5.5
Coefficient of Thermal Expansion (mm/°C)	7.3 x 10 <sup>-6</sup>
Fresh weight density (kg/m <sup>3</sup> )	1600-1900
Setting Time at 27°C (hrs) BS 5075	2-4

\* Compressive and flexural strength are tested at water powder ratio of 0.175

#### Application Instructions

##### Surface preparation

Substrate shall be thoroughly clean, free of laitance, oil, dust, grease, plaster, paint, corrosion and any other deleterious substances. Smooth surfaces should be mechanically roughened by scrubbing or needle gun to form a good mechanical key. All reinforcing steel must be grit blasted to a profile of SA 2½ prior to the application of recommended primer.

Edges of the areas for repair must be saw cut to 5mm to avoid feather edging and blow out all loose dust with dry, oil free compressed air.

##### Priming

All surfaces must be primed prior repair. Reinforcing steel must be primed with galvanized protective coating or epoxy system which will prevent further corrosion.

All concrete surfaces should be thoroughly soaked but leaving no surface water.

Concrete surfaces must be primed with Estobond Acryl bonding agent which is scrubbed onto the surface of the concrete. It will dry in approximately one hour. **Estopatch MP** should be applied when the Estobond Acryl is still tacky.

If the Estobond Acryl is too wet, build up may be reduced due to slippage in vertical situation. If Estobond Acryl is left to dry for more than 8 hours at 20 °C, a fresh coat shall be applied.

##### Mixing

Ensure that **Estopatch MP** is thoroughly mixed prior to use. It is essential that quantities of one bag or more are mixed with a slow drill (500rpm) with a loop paddle. For normal applications, 4.5 litres to the maximum of 5 litres water per 25kg bag, dependent on desired consistence. Drier mixes assist higher build and reduce the risk of drying shrinkage.

##### Application

For application to all surfaces, **Estopatch MP** is applied with a wood float to ensure positive contact with the primed substrate and initial application should be with tamping or compacting action.

Finishing can be wood float, steel trowel or sponge depending on the requirement.

The minimum layer thickness of **Estopatch MP** is 10mm and it can build up to 40mm on vertical surfaces.

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## Curing

**Estopatch MP** is a cementitious repair mortar. It must be cured immediately after finishing in accordance with good concrete practice. Estocure curing agent is recommended for this usage.

## Cleaning

**Estopatch MP** should be removed from tools with clean water immediately after use. Cured material can only be removed mechanically.

## Packing & Size

<b>Estopatch MP</b>	25 kg bag
<b>Estobond Acryl</b>	Refer different data sheet

## Yield

<b>Estopatch MP</b>	16 – 18 litre per bag depend on volume of water added
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## Coverage

<b>Estopatch MP</b>	One bag will cover 1.6-1.8 m <sup>2</sup> at 10 mm thick
<b>Estobond Acryl</b>	4 – 6 m <sup>2</sup> per litre depends on porosity of substrate

## Technical Support

Denka offers a comprehensive range of high performance, high quality of repair product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifiers, end-users and contractors, as well as on site technical assistance.

## Storage

**Estopatch MP** has a shelf life of 12 months if maintained in dry storage conditions in unopened bags. This may be reduced in location of high humidity.

## Precaution

**Estopatch MP** contains cement powder, which might be harmful to sensitive skin. In case of contacted with eyes, rinse with water immediately and seek medical advice.

## Additional Information

**Denka Construction Solutions Malaysia Sdn Bhd** offers a wide range of complementary products which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.



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