

## Estotect MMA

### High Performance Methyl-Methacrylate Protective and Decorative Coating

#### Description

The **Estotect MMA** system comprises of a silane-siloxane primer and a single component pigmented coating.

**Estotect MMA Primer** is a clear liquid silane-siloxane dissolved in a penetrating organic carrier. The primer is chemically-bound hydrophobic barrier.

**Estotect MMA** is a methacrylate, solvent based protective coating, with outstanding resistance to aggressive elements, UV light and rain.

**Estotect MMA has been tested in accordance to BS EN 1062-6 on Determination of Carbon Dioxide Permeability; BS EN ISO 7783:2011 on Determination of Water Vapor Diffusion; BS EN 13396 on Determination of Chloride Ion Ingress and complied with the specification in this data sheet.**

#### Uses

To protect exposed reinforced concrete structures from acid gases, chloride ions, sulphates, oxygen and water. **Estotect MMA** is suitable for use on structures in aggressive marine and coastal environments. It is suitable for new existing structures.

#### Advantages

- Excellent barrier to carbon dioxide, chloride ions, sulphate, oxygen and water
- Breathable coating which allows vapour to escape from the structure
- Highly UV-resistant
- Excellent resistance to dirt pick-up

#### Standard Compliance

- **ASTM C1556-11a**
- **ASTM D2369:2010**
- **BS EN 1062-6:2002, Method B**
- **BS EN ISO 7783:2011**
- **BS EN 13396:2004**

#### Physical Properties

Appearance	Single component liquid (Clear / coloured)
Specific Gravity, kg/L	1.20 – 1.30
Solid Content, %	> 70
Wet film thickness, $\mu\text{m}$	> 200 / coat
Carbon Dioxide Permeability Diffusion equivalent air layer thickness $S_D$ , m BS EN 1062-6:2002	> 200
Water vapour diffusion $S_D$ , m BS EN ISO 7783:2011	< 1.05
Chloride ion diffusion BS EN13396:2004	No chloride ion diffusion after 180 days immersion
Improvement on Chloride Penetration, % ASTM C1556-11a	> 90

#### Application Instruction

##### Preparation

Substrate should be dry and free from contamination such as oil, grease, loose particles, etc.

##### Application

In order to obtain the protective properties of the **Estotect MMA** system, it is important that the correct rates of application and over coating times are observed.

	<b>Estotect MMA Primer</b>	<b>Estotect MMA</b>
No. of coats	Spray / roller coat	2
Theoretical application rate	4 - 5 $\text{m}^2/\text{litre}/\text{coat}$	5 - 6 $\text{m}^2/\text{litre}/\text{coat}$
Over coating time @ 30°C	90 mins	5 hours

Note: Application rate is depending on the substrate surface evenness and porosity. The application rate might be lower on porous and absorbent surface.

The primer should be applied in one or two coats using portable spray equipment.

**Estotect MMA** can be applied by suitable brushes or rollers. The material should be stirred thoroughly before use.

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## Cleaning

**Estotect MMA Primer** and **Estotect MMA** can be removed from tools and equipment with Xylene.

## Packaging & Size

<b>Estotect MMA Primer</b>	20 litre pail
<b>Estotect MMA</b>	20 litre tin

## Coverage

<b>Estotect MMA Primer</b>	4 - 5 m <sup>2</sup> per litre
<b>Estotect MMA</b>	5 - 6 m <sup>2</sup> per litre

## Technical Support

Denka offers a comprehensive technical support, including help at the design stage, application advice and on the site problem solving. Specifiers and contractors are encouraged to contact our trained staff for answers to their questions

## Storage

All products have a shelf life of 12 months if kept in a dry store in the original, unopened packs.

## Precaution

**Estotect MMA** should not be swallowed or in contact with skin and eyes. Wear suitable protective gloves and goggles.

Splashes on the skin should be removed with water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

## Additional Information

Denka Construction Solutions Malaysia Sdn Bhd also offers various types of waterproofing systems, which include self-adhesive, and torched-on membranes, polymer modified cementitious coatings, liquid applied coatings and rubberized bituminous emulsions etc.



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