

# Estoflex MMA

## Hybrid MMA – PU Waterproofing System

### Description

The **Estoflex MMA** is a waterproofing system that comprises of a primer, pigmented body coat, and a top coat.

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

### Uses

**Estoflex MMA** waterproofing system is widely used to waterproof flat roofs subjected to carbonation and UV attack at areas especially at RC flat roof and balconies.

### 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

### Standards Compliance

- **BS EN 1062-6:2002, Method B**
- **BS EN ISO 7783-1:2000**
- **BS EN 13396:2004**

### Physical Properties

Carbon Dioxide Permeability BS EN 1062-6:2002, Method B Diffusion equivalent air layer thickness	>200 m
Water vapour diffusion resistance BS EN ISO 7783-1:2000	S <sub>D</sub> 1.02 m
Chloride ion diffusion BS EN13396:2004	No chloride ion diffusion after 180 days immersion

### Application Instructions

#### Surface Preparation

New concrete, or cementitious substrates, should be at least 28 days old and have a moisture content not exceeding 5%.

Existing concrete floors, which require refurbishment, must be prepared to ensure a strong adhesive bond between the flooring system and the existing floor.

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

#### Priming

Application of **Estoflex MMA Primer System (Estotect MMA Primer and Estoprime LV)** will enhance the adhesion of the screed materials to the concrete slab.

Once the surface preparation works is completed, the floor is subjected to be primed using **Estotect MMA Primer**. **Estotect MMA Primer** can be applied using spray machines or roller. The most effective method is to flood the substrate with **Estotect MMA Primer** and soak the areas using a suitable plastic broom provided by Estop Sdn Bhd. Allow 3 – 4 hours for the primer to penetrate and dry before commencing to the next steps.

Once the **Estotect MMA Primer** is dried proceed to mix both components of **Estoprime LV** by using a slow speed hand-drill until homogenous. Once mixed, the primer should be applied immediately to the prepared substrate using stiff brush or rollers. **No water to be added into Estoprime LV mixture.**

The primer should be well scrubbed into the substrate to ensure full coverage. Porous substrates may require a second primer coat.

#### Application of Estoflex MMA Body Coat and Wear Coat (Estotect MMA)

Stir the **Estoflex MMA** single component liquid using a suitable stick to ensure uniform colour is achieved. Spread the **Estoflex MMA** onto substrate and apply using suitable roller. **Estoflex MMA** is also suitable to be applied by using a spray gun.

Apply the **Estoflex MMA** at a rate of 3 – 4 m<sup>2</sup> per litre and ensure all areas are covered. Allow the coating to cure for around 24 hours before proceeding to second coat of wear coat.

#### Application of Estoflex MMA Top Coat (Estogard PU10 Clear)

Ensure that the **Estoflex MMA** body coat is allowed to fully cure before application of top coat.

Mix Part A and B of **Estoflex MMA Top Coat** accordingly and apply by roller at a rate of 5 – 7m<sup>2</sup> per litre. Allow the coating to cure for 24 hours before any traffic is allowed to pass.

# Estoflex MMA

## Hybrid MMA – PU Waterproofing System

### Cleaning

Estoflex MMA can be removed from tools and equipment with Solvent.

### Packing & Size

Estotect MMA Primer	20L Pail
Estoprime LV	4.5 Litre pack
Estotect MMA	20 Litre tin
Estogard PU10 Clear	5.0 Litre pack

### Coverage

Estotect MMA Primer	2.5 – 4.0 m <sup>2</sup> / litre
Estoprime LV	4.5 – 5.0 m <sup>2</sup> / litre / coat
Estotect MMA	3.0 – 4.0 m <sup>2</sup> / litre / coat
Estogard PU10 Clear	5.0 – 7.0 m <sup>2</sup> / litre / coat
Estotect MMA Primer	2.5 – 4.0 m <sup>2</sup> / litre

\* This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage, etc.

### Technical Support

Estop 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.

### Precautions

Estoflex MMA waterproofing system 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

Estop 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.

## Important Note

*Estop products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request. Whilst Estop endeavors to ensure that any advice, recommendation, specification or information in may give is accurate and correct, it shall not, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.*