

Estogard S100e

1.0 – 1.5mm Epoxy Based Self Smoothing Floor Topping

Description

Estogard S100e consists of graded aggregates bound in a pigmented epoxy resin binder. It is designed to achieve greater thickness and supplied as a four-component system, pre-weighed for onsite mixing.

When laid, it provides a smooth, light-reflective surface. **Estogard S100e** is available in a range of standard and special colours.

Uses

Estogard S100e is designed for use in wide range of industrial environments where a lasting solution to floor maintenance problems is required. It provides a dense, impervious, coloured and chemically resistant floor surface which is hygienic and easy to clean. Typical applications include:

- Clean room
- Car parks and garages
- Kitchens
- Plant rooms
- Light industrial plant

Advantages

- Fast application – minimises downtime.
- Chemically resistant – good resistance to a wide range of chemicals.
- Durable – good abrasion resistance.
- Hygienic – provides a dense, impervious, seamless floor surface which is easily cleaned.
- Attractive – available in a wide range of colours to enhance the working environment.

Physical Properties

| | |
|------------------------|--------------------------------|
| No. of Components | 4 |
| Colour | Refer to standard colour chart |
| Specific Gravity, kg/L | 1.43 – 1.47 |
| At 28°C | |
| Pot Life, min | < 90 |
| Workable Time, min | < 60 |
| Initial Cure, hrs | 24 |

| | |
|--|---|
| Final Cure, days | 7 |
| Compressive Strength, N/mm ² BS 6319 part 2 7 Days | 45 – 50 |
| Flexural Strength, N/mm ² BS 6319 part 3 7 Days | 30 – 40 |
| Tensile Strength, N/mm ² BS 6319 part 7 7 Days | 15 – 20 |
| Adhesion Strength, N/mm ² ASTM D412 | 1.5 (Concrete Failure) |
| Application Thickness | 1.0 – 1.5 mm |
| Chemical Resistance | Excellent resistance to wide range of industrial chemicals. Chemical chart available upon request |



Application Instructions

Surface Preparation

It is essential that **Estogard S100e** is applied to sound, clean and dry surfaces in order that maximum bond strength is achieved between the substrate and the flooring system. All dust and debris should be removed prior to application of the product or its primer.

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Priming

All surfaces treated with **Estogard S100e** should be primed with **Estoprime LV** designed for maximum absorption and adhesion to concrete substrates.

Mixing

The colour pack should be added to the base container and mixed for 15-30 seconds, until homogeneous. Then add the hardener and mix for further 30 seconds, until an even colour and texture is obtained.

Thereafter, the contents of the graded aggregate pack should be slowly added and mixing carried out for a further 3 minutes until a completely homogenous material is obtained.

Application

The material should be poured onto the prepared and primed substrate as soon as mixing is completed. It should be spread to the required thickness using a serrated trowel; with care taken not to overwork the resin, spreading evenly and slowly. Immediately after laying, the material should be rolled, using a spiked nylon roller, to remove slight trowel marks, and to assist air release. The rolling should be carried out using a 'back and forth' technique along the same path. An overlap of 50% with adjacent paths is recommended. Further light rolling may be required to remove surface imperfections, or for subsequent release of trapped air, but should be prior to the setting of the product. All existing expansion or movement joints should be followed through the new floor surface. Joint sealant & joint geometry should be compatible with the floor type used, intended exposure conditions and likely movement characteristics of the substrate - consult the local Estop office for more details.

Cleaning

Clean the tools, etc while the mortars are still uncured with Xylene. Remove hardened material mechanically.

Limitations

Estogard S100e should not be applied on to surfaces known to, or likely to suffer from, rising dampness, potential osmosis problems or have a relative humidity greater than 75% as measured in accordance with BS 8203 Appendix A, or by a Hammond concrete/mortar moisture tester type COCO. In areas where significant thermal shock is likely to occur, for e.g. cold rooms etc., please consult the local Estop office. **Estogard S100e** should not be applied to asphalt, weak or friable

concrete, unmodified sand/cement screeds, PVC tiles or sheet or substrates known to move substantially e.g. steel walkways.

Packing & Size

| | |
|-----------------------|------------------------|
| Estogard S100e | 8 Litre / pack (12 kg) |
| Estoprime LV | 5 Litre / pack (5 kg) |

Coverage

| | |
|-----------------------|--|
| Estogard S100e | 7.0 – 7.5 m ² / pack / 1 mm thick |
| Estoprime LV | 20.0 – 25.0 m ² / pack |

Technical Support

Denka offers a technical support package to specifiers, end-user and contractors, as well as on site technical assistance.

Storage

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

Precautions

Estogard S100e is flammable.

Wear suitable protective gloves, clothing, eyes protection and respiratory protective equipment. If swallowed, seek medical attention immediately. Do not induce vomiting.

Do not use thinner in contact with product. Use of any solvent, refer to Estop Technical Department.

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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