

Estogard PU S200

3 – 6 mm Self-Smoothing Polyurethane Topping

Description

Estogard PU S200 is a pigmented self-smoothing polyurethane topping designed to provide excellent durability and resistance against abrasion, impact and chemical attack.

Uses

Estogard PU S200 is for floors subjected to high wear and tear, exposure to heavy vehicular traffic and/or to strong industrial chemicals. **Estogard PU S200** is recommended for application to engineering workshops, assembly plants, chemical plants, food and pharmaceutical factories and warehouses.

Advantages

- Seamless, prevents ingress of chemicals and prevents bacterial growth
- Hard wearing – suitable for vehicular traffic
- Hard wearing and Non-skid, highly recommended for used in vehicular and wet areas
- Easy maintenance with low maintenance costs

Physical Properties

Density, kg/mm ³	1.9
Compressive Strength, N/mm ²	50
Tensile Strength, N/mm ²	7
Flexural Strength, N/mm ²	21
Dynamic Elastic Modulus, N/mm ²	14500
Adhesive Strength, N/mm ²	Concrete failure
Thermal Conductivity, W/m°C	0.9
Taber Abrasion Resistance	1 gms / 1000 gms loading 1000 rpm
Coefficient of Thermal Expansion, °C	3.5 x 10 ⁻⁵
Impact Resistance, mm	< 0.5 (BRE Screed Tester)
Pot Life, mins:	
at 30 °C	18
at 15 °C	25
at 8 °C	35
Temperature Resistance, °C	80
Service Temperature:	
At 6mm	90 °C max. & -5 °C
At 3mm	80 °C max. & -5 °C

Chemical Resistant

Acids	Very good
Alkali	Excellent
Solvents	Very good
Salts	Excellent

For exposure to specific chemicals, please contact Estop Laboratory Technical Division for further assistance.

Application Instruction

Surface Preparation

Substrate shall be cleaned and free from oil, grease and other contaminants. Allow new concrete to cure for at least 28 days before application of primer. If substrate moisture exceeds 4%, moisture barrier shall be used. Preparation by captive blasting or diamond grinding is ideal for application of topping.

Mixing

Add part A and part B to a clean mixing drum and mix for 10 second until uniform using a helical spinner. Add the pigmented part C and further mix for 1 minute to achieve a fully homogenized consistent mortar. Scrap out residue of previous mix from the sides of the drum and discard before the next pack. Stir mix well both contents with high power mixer 750 rpm.

Primer

Application of **Estoprime LV** will enhance the adhesion of the topping to concrete slab.

Application

Spread the composite matrix to thickness 3 – 6 mm and consolidate with steel trowel to the correct depth. Use short nap roller dipped in xylene and roll lightly on the surface to bring up the resin.

Temperature

Estogard PU S200 should not be applied on material or floor temperatures below 10°C. Temperature should not fall below 5 °C in the 24 hours after application. Service temperature is depending on thickness but may be up to 80°C on intermittent splash. Not for immersion.

Curing

	25 °C	35°C
Foot Traffic, hr	10	8
Light Traffic, hr	24	18
Full Traffic, hr	48	24
Full Cure, days	7	5

Substrate Movement

All moving joints must be carried through the **Estogard PU S200** and properly sealed. Construction joints and cracks may be covered but if substrate movement occurs, the **Estogard PU S200** will reflect the crack.

Cleaning

Clean all the tools with acetone, xylene or other solvents prior to material taking a hard set. Small unreacted Part B in container to be decontaminated with 5% solution of washing soda (Sodium Carbonate) prior to disposal. After material has set it is virtually impossible to get off and can only be removed mechanically.

Maintenance

Regular cleaning and maintenance will prolong the life of all resin floors, enhance the appearance and reduce the tendency to retain dirt.

Packaging & Size

Estogard PU S200	20 kg pack
Estoprime LV	5 litre pack

Coverage

Estogard PU S200	3.5m ² /pack/3mm
Estoprime LV	4-5m ² /L

These figures are for guidance only. Actual coverage will depend on the texture and porosity of the surface being covered.

Technical Support

Estop 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

Estogard PU S200 should be stored on pallets in dry conditions. Under these conditions, the product will have a shelf life of 12 months.

If stored in extreme heat locations the shelf life may be reduced.

Precaution

Estogard PU S200 and **Estoprime LV** contain polyurethane resin, which may cause skin sensitization in certain individual.

Avoid skin contact and apply suitable barrier cream or wear disposable rubber gloves.

Additional Information

Estop manufactures and 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.

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.