

## Easi-Screed® Industrial

### Product Description

Self levelling industrial cement-based floor screed system

*Easi-Screed Industrial* is a dual-purpose polymer-modified, cement-based internal sub-floor smoothing interior underlayment or wear surface topping, which is simply mixed with water to provide a durable, heavy duty industrial floor topping with a strong, close tolerance level finish. Rapid curing allows early trafficking and overcoating of *Easi-Screed Industrial* with Polycote *Flortex SG*, is recommended although not essential for all applications.

### Typical Uses

*Easi-Screed Industrial* is used to level uneven internal concrete floors and provide a strong finished floor surface. It is ideal for situations where rapid installation and curing are required. Typical applications include warehouses, factories and workshops.

**Suitable substrates:** *Easi-Screed Industrial* is designed primarily for use on power-floated or tamped concrete, along with existing cementitious & anhydrite based screeds.

**Colour** *Easi-Screed Industrial* is grey in colour, subject to slight variation depending on current raw materials, mixing and application conditions.

**Packaging:** *Easi-Screed Industrial* is supplied in 25kg bags.

### Direction For Use

#### Surface Preparation

Thorough substrate preparation is essential.  
Follow recommendations given on the relevant primer Data Sheet.  
See 'Priming' below for the primer appropriate to your application.

#### Priming

Concrete or sand and cement screeds - prime with *Polycote Easi-Screed Primer*.  
Non-absorbent surfaces - prime with *Polycote WD Primer*. Please refer to relevant Data Sheets for preparation and priming methods.

#### Mixing

Measure 4.5L of clean water into a suitable sized bucket.  
Gradually add the entire 25kg quantity of powder whilst mixing with a heavy duty slow speed drill and mixing paddle.  
Mix for at least 3 minutes to allow the additives to dissolve and produce a homogenous mix. Allow the mix to stand for 2-3 minute and mix briefly for 1 minute, afterwards the free-flowing screed will be ready for application directly onto the prepared substrate.  
Ensure thorough mixing as an unmixed product will result in a poor or non-cure situation.

### Application

Starting at the furthest corner from the exit pour the material evenly onto the floor to the required thickness and allow the material to start levelling.

The use of depth adjustable floats or a pinned/notched leveller is recommended to assist in spreading the screed to a constant thickness.

A spiked roller should be used immediately over the entire area to eliminate any bubbles trapped within the screed. Failure to spike roll may result in a porous surface as the bubbles escape whilst curing takes place.

The next mix of material must be rapidly produced and poured along the wet edge of the material as well as across the exposed floor.

Each application should be laid within 25 minutes of the area adjoining in order to blend evenly into the edge of the previously laid material.

This can be helped by gently trowelling along the joint.

Once the workable time has been exceeded it is not possible for the new material to be blended into previously applied material. Therefore the floor topping should ideally be applied to the entire area in one continuous operation.

Cementitious screeds are susceptible to damage from liquid and chemical attack (including prolonged or constant use of water) and should therefore be sealed suitably prior to the use of such products.

#### Pumped Application

*Easi-Screed Industrial* is suitable for use in conjunction with professional mixer pump systems, enabling continuous application of large areas. Please contact Polycote Technical Helpline.

## Application <sup>(cont)</sup>

## Working & Curing Times

## Physical Properties

## Coverage

## Cleaning

## Shelf Life & Storage

## Finishing

## Health & Safety

## Any Questions

### Application Conditions

Ambient temperature should be between 10°C and 35°C for 48 hours before, during and after completion of installation.

Underfloor heating must be switched off during this period.

Atmospheric relative humidity should be below 90% and the moisture content of the subfloor should be below 75%. Avoid exposure to sunlight and draughts for 5 hours as this may cause premature curing and hairline cracks.

### Application Thickness

The recommended range of applied thickness is from 5mm minimum to 20mm maximum in one layer. For filling deeper areas please contact the Polycote helpline for advice.

The working time of *Easi-Screed Industrial* once mixed is 20-30 minutes at 20°C.

The surface will withstand foot traffic after approximately 4 hours depending on temperature and may be overcoated with *Polycote Flortex SG* after 24 hours.

Density:	2.10 ± 0.05 g/mL
Working time:	20 - 30 min @ 20°C
Setting time:	120 - 180 min @ 20°C
Foot traffic:	4 hr
Light traffic:	24 hr
Heavy traffic:	3 days
Compressive strength:	> 25 N/mm <sup>2</sup> @ 1 day
BS EN 13892-2	> 35 N/mm <sup>2</sup> @ 7 days
	> 45 N/mm <sup>2</sup> @ 28 days
Flexural strength:	> 4 N/mm <sup>2</sup> @ 1 day
BS EN 13892-2	> 7 N/mm <sup>2</sup> @ 7 days
	> 10 N/mm <sup>2</sup> @ 28 days
Flow properties using 30 mm Ø x 50 mm flow ring: BS EN 12706	110 - 130 mm
Consumption per mm thickness:	1.7 - 1.75 kg/m <sup>2</sup>
Application thickness:	3 - 15 mm

The coverage per 25kg unit of Easi-Screed Industrial mixed with 4.5L of water is as follows:-  
4.6m<sup>2</sup> at 3mm depth  
2.3m<sup>2</sup> at 6mm depth  
1.35m<sup>2</sup> at 10mm depth.

Tools and equipment should be cleaned whilst material is still wet using clean cold water. Hands and skin should be cleaned immediately with Organic Hand Cleaner.

Shelf life is up to 6 months if kept unopened in dry, frost-free conditions at a temperature between 10°C and 30°C.

*Easi-Screed Industrial* may be used without further overcoating. However, a coloured or clear water dispersed epoxy coating such as *Polycote Flortex SG* may be applied as soon as the screed has initially cured. This will act as a curing agent and help prevent premature drying and cracking, as well as strengthening and sealing the surface for protection against oil and other spillages.

Before using this product, please ensure you have received and read carefully both the Hazard Label applied to the container and the relevant Material Safety Data Sheets.

Please do not hesitate to contact us for advice regarding the use of this product or its suitability for your particular application.

Our aim is to provide all the technical help you need to make an informed choice and achieve total success.

Polycote Technical Helpline: **01234 846400**

All reasonable care has been taken in supplying the above information. However, any figures quoted do not constitute a specification but represent typical values obtained. It is the customer's responsibility to ensure the product is fit for the intended purpose and that conditions are suitable. Any technical advice is offered in good faith, but without warranty. This is also applicable when proprietary rights and third parties are involved. In the light of the Company's policy of continual research and development, it is the customer's responsibility to ensure that the information contained herein has not been superseded.