

# Easi-Screed® External

**Self levelling industrial cement-based floor screed system**



**“maintenance made easy”**



## PRODUCT DESCRIPTION

**Easi-Screed External is a single pack cementitious self-smoothing floor screed containing graded aggregates and acrylic polymer powder, which is simply mixed with water to provide a durable, heavy duty industrial floor topping with a strong, close tolerance level finish.**

## TYPICAL USES

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

## SUITABLE SUBSTRATES

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

## COLOUR

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

## PACKAGING

*Easi-Screed External* is supplied in 20kg bags.



## DIRECTIONS 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** – Dampen surface using water.

**Non-absorbent surfaces** – prime with Polycote *WD Primer*.

Please refer to relevant Data Sheets for preparation and priming methods.

### MIXING

Measure 4L of clean water into a suitable sized bucket.

Gradually add the entire 20kg quantity of powder whilst mixing with a heavy duty slow speed drill and mixing paddle.

Mix for at least two minutes to allow the additives to dissolve and produce a homogenous mix. Allow the mix to stand for 1 minute after which time the free-flowing screed will be ready for application directly onto the prepared substrate.

### 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.

### APPLICATION *Cont.*

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 chemical attack and should therefore be sealed suitably prior to the use of such products.

### PUMPED APPLICATION

*Easi-Screed External* is suitable for use in conjunction with professional mixer pump systems, enabling continuous application of large areas.

Please contact Polycote Technical Helpline for more information.

### APPLICATION CONDITIONS

Substrate and ambient temperature should be between 5°C and 35°C for 48 hours before, during and after completion of installation.

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.

For this reason in an exterior application it is advisable to cover the screed when laid or lay during the latter part of the day.

However, sufficient ventilation is necessary for the screed to dry.

### APPLICATION THICKNESS

The recommended range of applied thickness is from 3mm minimum to 10mm maximum in one layer.

For deeper areas, please contact the Polycote Technical Helpline for more information.

### COVERAGE

The coverage per 20kg unit of *Easi-Screed External* mixed with 4L of water is as follows

5m<sup>2</sup> at 3mm depth

2.5m<sup>2</sup> at 6mm depth

1.0m<sup>2</sup> at 10mm depth

### WORKING AND CURING TIMES

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

The surface will withstand foot traffic after approximately 3 hours at 20°C, and 24 hours at 5°C.

### PHYSICAL PROPERTIES

Compressive Strength  
(BS EN 13892-2)

|         |                        |
|---------|------------------------|
| 1 Day   | >11.0N/mm <sup>2</sup> |
| 7 Days  | >27.0N/mm <sup>2</sup> |
| 28 Days | >35.0N/mm <sup>2</sup> |

Flexural Strength  
(BS EN 13892-2)

|         |                       |
|---------|-----------------------|
| 1 Day   | >2.0N/mm <sup>2</sup> |
| 7 Days  | >5.0N/mm <sup>2</sup> |
| 28 Days | >7.0N/mm <sup>2</sup> |

### CLEANING

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.

**DIRECTIONS FOR USE Cont.**

**SHELF LIFE AND STORAGE**

Shelf life is up to 12 months if kept unopened in dry, frost-free conditions at a temperature between 10°C and 25°C.

**FINISHING**

*Easi-Screed External* may be used without further overcoating.

**HEALTH & SAFETY**

**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.**

**ANY QUESTIONS?**

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 for himself that 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.

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