Technical Data Sheet

Easi-Screed® External

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Self levelling industrial cement-based floor screed system

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 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 - 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 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 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.

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.

Application Thickness

The recommended range of applied thickness is from 2mm minimum to 25mm maximum in one layer.

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

Pump 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 (cont)

Application Conditions

Substrate and ambient temperature should be between 10˚C and 25˚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.

Coverage

The coverage per 25kg unit of *Easi-Screed Standard* mixed with 4.5L of water is as follows:-
4.6m² at 3mm depth
2.3m² at 6mm depth
1.35m² at 10mm depth.

Working & Curing Times

The working time of *Easi-Screed External* once mixed is 15 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

Working time:	15 min
Setting time:	90 min
Foot traffic:	24 hr @ 5˚C 3 hr @ 20˚C
Compressive strength: EN 12190	1 day: > 20 N/mm² 7 days: > 30 N/mm² 28 days: > 40 N/mm²
Flexural strength: BN 196-1	1 day: > 5 N/mm² 7 days: > 8 N/mm² 28 days: > 10 N/mm²

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.

Shelf Life & Storage

Shelf life is up to 9 months if kept unopened in dry, frost-free conditions at a temperature between 10˚C and 30˚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**