KREVO Floor EP-Screed

High-strength, load-bearing trowelable epoxy screed | Three-component system | 4-20 mm

PRODUCT DESCRIPTION

KREVO Floor EP-Screed is specified as a high-strength, trowel-applied epoxy mortar made from resin, hardener and graded mineral aggregate. It is intended as a tough load-bearing and levelling base layer for subsequent resin floor coatings or toppings, with resistance to mechanical impact and industrial chemical exposure.

ADVANTAGES

- Dense, hard-wearing, high-strength industrial epoxy screed.
- Suitable for levelling and repairing uneven concrete before finishing coats.
- Trowelable mortar construction permits local thickness build-up.
- Designed for durable service where impact, wear and chemical exposure are expected.
- Low-VOC and formaldehyde-free composition are formulation targets requiring confirmation.

TYPICAL USES

Industrial and processing floors • Load-bearing floor resurfacing • Depressions and local repairs • Levelling under epoxy flooring systems • Substrate build-up prior to chemical-resistant protective coatings.

PRODUCT INFORMATION

PARAMETER	SPECIFICATION
Material type	Three-component epoxy resin / hardener / graded aggregate mortar
Application method	Trowel or screed box; subsequent compatible resin floor finish
Designed installed thickness	4-20 mm
Service temperature	0 to +65 °C
VOC specification	< 10 g/L
Nominal unit packaging	12 L pack (component arrangement to be confirmed)
Shelf life	18 months in sealed original containers stored dry below +35 °C
Theoretical yield at 5 mm	2.8 m^2 per pack, subject to pack-yield and site verification

MECHANICAL PERFORMANCE SPECIFICATION | 7 d at +35 °C

PROPERTY / TEST METHOD	SPECIFIED VALUE
Compressive strength | BS 6319	> 65 N/mm^2 at 7 days
Flexural strength | BS 6319	> 15 N/mm^2 at 7 days
Tensile strength | BS 6319	> 10 N/mm^2 at 7 days
Water absorption | BS 1881	Nil

Application & System Data

KREVO Floor EP-Screed | Working times, overcoating, primer selection and substrate requirements

APPLICATION PROPERTIES

PARAMETER	AT +10 °C	AT +20 °C	AT +30 °C
Pot life	300 min	100 min	60 min
Overcoating time	24-48 h	18-36 h	12-24 h
Full cure	14 days	7 days	5 days

Times vary with temperature, batch size and jobsite conditions. Mixing and placement must be completed within the stated working life.

TYPICAL SYSTEM BUILD-UP

LAYER	MATERIAL / METHOD
1 | Substrate	Sound, prepared concrete, typically ICRI CSP 4-5
2 | Primer	KREVO Prime EP
3 | Bonding texture	Compatible anti-skid aggregate broadcast into final wet primer, approx. 200-250 g/m^2
4 | Screed	KREVO Floor EP-Screed trowel-applied at 4-20 mm
5 | Finish	Apply KREVO Floor EP-SL or KREVO Floor EP-Coat as required

SUBSTRATE PREPARATION

Concrete must be structurally sound. Remove weak or unsound material and reinstate defects before screeding. Eliminate grease, oil, coatings, curing compounds, dirt, laitance and dust. Mechanical preparation such as captive shot-blasting should create a lightly exposed-aggregate surface, typically ICRI CSP 4 or 5. Fill pinholes and blowholes using a compatible repair filler.

MOISTURE TESTING & PRIMER SELECTION

Test in-situ relative humidity using ASTM F2170. Where internal RH exceeds 80%, the supplied system guidance calls for moisture-vapor emission testing under ASTM F1869. Suggested MVER-based primer selection must be verified for KREVO compatibility:

MVER (lb / 1,000 ft^2 / 24 h)	PRIMER DESIGN GUIDANCE
Below 3	Standard compatible epoxy primer
3 to 5	Moisture-tolerant primer, one coat about 165 µm WFT
5 to 12	Moisture-tolerant primer, two coats at 200 µm WFT each

The surface should be dry, free of rising damp and have moisture content not above 5% during installation. Provide an approved moisture-control system where necessary. These are selection criteria, not approval of a specific primer.

PRIMING

Mix KREVO Prime EP base and hardener with a low-speed mixing paddle until homogeneous. Apply evenly with a polyurethane squeegee and back-roll with a short-nap roller, without pooling. Reprime porous areas if required. Broadcast compatible medium-grade anti-skid aggregate into the final wet primer at approximately 200-250 g/m^2. Allow at least 12 hours of primer cure and apply the next layer within 36 hours, subject to the validated primer method.

Installation & Product Support

KREVO Floor EP-Screed | Mixing, placement, service limits and international contacts

MIXING PROCEDURE

- Use clean equipment suitable for heavily filled epoxy mortar: a heavy-duty paddle or forced-action mixer.
- Transfer the full hardener component into the resin base; mix thoroughly until the liquid phase is uniform.
- Transfer the blended resin into the mixer and introduce the graded aggregate slowly while mixing.
- Continue mixing for approximately 3-5 minutes until a homogeneous mortar is formed; use complete matched units.

PLACEMENT & FINISHING

- Distribute the mixed screed immediately onto the prepared, suitably primed surface.
- Lay to a uniform specified thickness of 4-20 mm by screed box or steel trowel and fully compact.
- Complete placement and finishing within the applicable pot life; discard material once workability is lost.
- Install subsequent KREVO-approved flooring systems within the appropriate overcoating window.

JOINTS, LIMITATIONS & SERVICE NOTES

- Continue existing structural, expansion and movement joints through the screed and any overlying topping; seal with a suitably designed joint sealant.
- Do not use in continually immersed applications or over surfaces subject to uncontrolled rising moisture.
- Do not apply if the substrate temperature is within 3 °C of the dew point, or within 5 °C while the dew-point margin is reducing.
- Prolonged direct sunlight may lead to colour change. Protect the fresh screed from water, chemicals, traffic and contamination until cured.
- Remove uncured residues promptly using the compatible cleaner specified in the SDS; hardened material requires mechanical removal.

HEALTH, SAFETY & ENVIRONMENT

For industrial use by trained applicators only. Review the current Safety Data Sheet for all product components before use. Wear chemical-resistant gloves, goggles, protective clothing and appropriate respiratory protection. Keep the area ventilated, avoid skin and eye exposure, and prevent liquid residues from entering drains. Dispose of unused material and containers in accordance with applicable regulations.

QUALITY & PRODUCT INFORMATION

Actual performance depends on resin formulation, component proportions, aggregate grading, substrate condition and installation quality. Verify the declared technical values, pack yield, applicable approvals and any claimed test classifications using KREVO product qualification records before external issue.

KREVO | GLOBAL CONTACTS

ENGLAND

10 Shipley Avenue, Fenham
Newcastle upon Tyne
England NE4 9RA
+44 7436 650806
info@krevo.uk
krevo.uk

UNITED STATES

9209 S. Aeva Avenue
Evergreen Park, IL 60805
+1 (773) 996-0846
info@krevo.us
krevo.us

CHINA

Office 235, 4th Floor
No. 5 Inner
China
+86 139 5536 3625
krevo.cn