TECHNICAL DATA SHEET

KREVO
Exploring Chemistry

KREVO Floor EP-SL

Abrasion- and chemical-resistant self-leveling epoxy flooring | Three-component system | 1–4 mm

PRODUCT DESCRIPTION

KREVO Floor EP-SL is a three-component, self-smoothing epoxy floor topping designed to form a dense, durable and easy-to-clean industrial wearing surface. The system may be configured with a pigmented resin base or a neutral base with a separate colour pack. Four application grades provide a range of thickness options for commercial and industrial floor protection.

GRADES & APPLICATION THICKNESS

PRODUCT GRADE	NOMINAL LAYER THICKNESS
KREVO Floor EP-SL 1	1.0–1.5 mm
KREVO Floor EP-SL 2	2.5 mm
KREVO Floor EP-SL 3	3 mm
KREVO Floor EP-SL 4	4 mm

ADVANTAGES

- Dense, seamless, self-smoothing epoxy floor surface with good cleanability.
- High impact and abrasion resistance; suitable for regular industrial floor traffic.
- Designed to resist a wide range of chemical splashes and routine cleaning chemicals.
- Suitable for hygiene-conscious, easily maintained work areas.
- Low-odour, low-VOC design criterion; formaldehyde-free composition criterion.
- Single continuous wearing layer when installed over an approved primer.

TYPICAL USES

Food and beverage production • Pharmaceutical facilities • Kitchens and laundries • Hospitals • Laboratories and cleanrooms • Chemical handling and processing areas.

TECHNICAL PERFORMANCE SPECIFICATION

PROPERTY / TEST METHOD	EP-SL 1	EP-SL 2 / 3	EP-SL 4
Compressive strength | ASTM D695	>70 MPa	>70 MPa	>70 MPa
Compressive modulus | ASTM D695	>5,000 MPa	>5,000 MPa	>5,000 MPa
Flexural strength | ASTM EN 196	>35 MPa	>35 MPa	>40 MPa
Tensile strength | ASTM D638	>15 MPa	>15 MPa	>20 MPa
Impact resistance | ASTM D2794	>5 J	>5 J	>5 J
Abrasion resistance | ASTM D4060	<50 mg	<50 mg	<50 mg
Static friction | ASTM F609	>0.9 dry / >0.6 wet	>0.9 dry / >0.6 wet	>0.9 dry / >0.6 wet

Performance criteria shown for a 7-day cure at 25 °C. Product-specific laboratory verification is required before certifying conformity.

Application & System Data

KREVO Floor EP-SL | Grades, coverage, colours and service conditions

APPLICATION PROPERTIES

PARAMETER	SPECIFICATION
Application temperature	+5 °C to +35 °C
Pot life / working time at 25 °C	75 minutes
Service temperature	0 °C to +60 °C
Volatile organic content (VOC)	<10 g/L
Packaging / mixed floor-coating unit	17 L pack configuration
Shelf life	12 months in unopened original packaging
Recommended storage	Dry, shaded conditions at +10 °C to +35 °C

THEORETICAL COVERAGE

PARAMETER	SPECIFICATION
Standard epoxy primer	10 m^2/L at 100 µm wet-film thickness
Moisture-tolerant primer	5 m^2/L at 200 µm wet-film thickness
KREVO Floor EP-SL 1	15 m^2 per 15 L at 1 mm
KREVO Floor EP-SL 2	7.5 m^2 per 15 L at 2 mm
KREVO Floor EP-SL 3	5 m^2 per 15 L at 3 mm
KREVO Floor EP-SL 4	4 m^2 per 15 L at 4 mm

Theoretical volumes exclude surface irregularities, wastage and site losses. Select a KREVO-compatible primer based on substrate moisture and system compatibility.

COLOUR RANGE

COLOUR OPTION	COLOUR OPTION
RAL 7035 | Light grey	**RAL 7042 | Traffic grey A**
RAL 7043 | Traffic grey B	**RAL 7045 | Tele grey**
RAL 1018 | Zinc yellow	**RAL 6033 | Mint turquoise green**
RAL 7032 | Pebble Grey	**RAL 5013 | Cobalt blue**
RAL 9002 | Grey White	**RAL 1020 | Olive yellow**

CHEMICAL RESISTANCE – DESIGN SCOPE

Chemical exposures for system selection include 10% lactic acid, concentrated bleach, saturated sugar solution, saturated urea solution, oils, petrol, greases and 10% ammonia. Resistance is dependent on chemical concentration, exposure duration, operating temperature and complete floor build-up.

PERFORMANCE & REGULATORY CLASSIFICATIONS

Relevant evaluation frameworks: SCAQMD Rule 1113; LEED NC2009 IEQ 4.2; FDA 21 CFR §175.300; DCL Green Building Regulations; EFNARC Type 5A (grades 2–3) / Type 7A (grade 4); FeFRA Type 5 MD/HD (grades 2–3) / Type 7 HD/VHD (grade 4). Fire-classification criteria: UK Building Regulations Document B, Class 0; BS 476 Part 7, Class 1 surface spread of flame.

The above are specification and assessment criteria; certification, regulatory compliance and suitability for food contact are not claimed without product-specific evidence.

Installation & Product Support

KREVO Floor EP-SL | Substrate preparation, application and global technical contacts

SURFACE PREPARATION

Concrete must be sound and free of laitance, oil, grease, paint, dust, corrosion products and loose particles. Repair damaged or weak areas and fill surface blowholes using an approved, compatible repair material. Mechanically prepare the concrete by suitable captive blasting to achieve an ICRI CSP 4–5 profile; level uneven areas with a compatible floor-levelling system. Thoroughly remove residual dust before priming.

MOISTURE TESTING & PRIMER SELECTION

Evaluate internal slab relative humidity to ASTM F2170. Where the reading exceeds 80%, additionally measure moisture-vapour emission in accordance with ASTM F1869. The specified primer selection criteria are: below 3 lb/1,000 ft^2/24 h, standard epoxy primer; 3–5 lb/1,000 ft^2/24 h, a suitable moisture-tolerant primer at 165 µm wet-film thickness; 5–12 lb/1,000 ft^2/24 h, two coats of moisture-tolerant primer at 200 µm wet-film thickness each. Actual primer acceptance limits and compatibility must be confirmed for the KREVO system.

PRIMING

Mix KREVO PRIME EP base and hardener using a low-speed drill and approved paddle until uniform. Apply evenly to the prepared surface using a stiff brush or roller without puddles or excessive build-up. On highly absorbent concrete, apply another coat when the first is tack-free. Lay the flooring over tack-free primer within the approved recoat window; the specified maximum interval is 24 hours.

MIXING & APPLICATION

Pre-stir the resin base to re-suspend any settled constituents. Mix all supplied components in the prescribed sequence using a suitable forced-action mixer until homogeneous. Pour onto the tack-free primer, spread with a notched V-rake and level to the required film thickness. Immediately use a suitable spiked roller to release entrapped air and improve finish. Complete spiked rolling within 20 minutes of spreading.

CLEANING, LIMITATIONS & HEALTH AND SAFETY

- Clean application tools immediately using a compatible approved cleaning solvent; cured material requires mechanical removal.
- Epoxy colour may change under prolonged direct sunlight. Prevent dust contamination, pinholes and fish-eye defects.
- Do not apply within 3 °C of the dew point, or within 5 °C when temperature is falling. Apply only at +5 °C to +35 °C.
- Do not add solvent to finish the floor. Protect from water, chemicals and traffic until adequate curing.
- Industrial use by trained applicators. Consult the current KREVO Safety Data Sheet and use suitable gloves, eye protection, respiratory protection and ventilation. Prevent entry into drains.

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