TECHNICAL DATA SHEET

KREVO
Exploring Chemistry

KREVO Floor PU-SL

Self-leveling Urethane Hybrid Flooring | Flow-applied floor topping

PRODUCT DESCRIPTION

KREVO Floor PU-SL is specified as a Heavy-duty, flow-applied, self-smoothing urethane-hybrid floor topping for industrial concrete substrates. The system is intended to provide a continuous surface with resistance to wear, chemical exposure and physical traffic. A urethane-prepolymer-based composition is specified for reduced shrinkage, extended working time and tolerance of humid service environments.

ADVANTAGES

- Seamless, self-smoothing finish with high durability and abrasion resistance.
- Designed for resistance to impact, routine cleaning chemicals and moisture.
- Specified for enhanced slip resistance in both wet and dry conditions.
- Formaldehyde-free formulation and low-VOC performance are qualification requirements.
- Suitable for industrial areas and warm / tropical environments where approved.

TYPICAL APPLICATIONS

Food processing and wet-cleaned areas • Breweries and dairy facilities • Chemical-processing plants • Engineering and production facilities • Aircraft hangars and industrial service floors.

TECHNICAL PERFORMANCE CRITERIA

PARAMETER	SPECIFICATION
Compressive strength | ASTM C109	> 65 MPa
Flexural strength | ASTM C580	> 32 MPa
Tensile strength | ASTM D638	> 15 MPa
Abrasion loss | ASTM D4060, CS17, 1,000 g / 1,000 revolutions	< 0.1 g
Slip resistance | BS 7976, wet	> 0.7
Slip resistance | BS 7976, dry	> 1.29

Enhanced slip-resistant characteristics assessed in the context of BS 4592.

PRODUCT & APPLICATION DATA

PARAMETER	SPECIFICATION
Usable life of mixed unit at 20 °C	120 minutes
Light pedestrian traffic / heavy-duty traffic	24 hours / 48 hours
Full cure	5 days
Specified thickness	4 mm
Service temperature	–5 °C to +75 °C
Volatile organic content (VOC)	< 25 g/L
Theoretical coverage at 2 mm	1 L/m^2 @ 1mm
Specified floor-topping kit size	15 L

Application & Installation

KREVO Floor PU-SL | Surface assessment, priming and placement

SUBSTRATE REQUIREMENTS

Concrete must be structurally sound and free from oil, grease, paint, dust, laitance, residues and other bond-reducing substances. Remove loose material and repair blowholes, bugholes and damaged regions using an approved compatible repair compound. Mechanically prepare the surface, preferably by captive shot-blasting or grinding, to the specified ICRI CSP 4–5 profile. Level irregular areas using a compatible approved levelling material.

MOISTURE TESTING & PRIMER SELECTION

Test the slab using in-situ relative humidity measurement under ASTM F2170. At readings above 80% RH, assess moisture-vapour emission under ASTM F1869. The following is the specified moisture-management schedule; final primer compatibility must be established by KREVO technical approval.

PRIMING

Mix KREVO Prime EP base and hardener thoroughly with a slow-speed mechanical drill and suitable mixing paddle until uniform. Apply evenly with a stiff brush or roller without puddles. If the primer is rapidly absorbed, a second coat may be required after the first becomes tack-free. Apply the flooring layer when the primer is tack-free and within 24 hours of priming.

MIXING & APPLICATION

Pre-stir the base component to re-suspend settled material. Combine components using a forced-action mixer until a uniform mix is achieved. Pour the mixed KREVO Floor PU-SL onto the prepared, primed substrate. Distribute with a notched V-rake, followed by a pin leveller set to the specified 4 mm thickness. Immediately pass a spiked roller over the fresh coating to assist with air release and removal of levelling marks. Complete spike-rolling within 20 minutes of spreading.

CONSUMPTION, PACKAGING & STORAGE

PARAMETER	SPECIFICATION
Compatible primer — theoretical coverage	10 m^2/L
Floor topping — theoretical coverage	4 L/m^2 at 4 mm thickness
Specified compatible primer pack sizes	1 L and 5 L
Specified KREVO Floor PU-SL kit size	15 L
Specified shelf life	12 months from manufacture
Storage conditions	Store dry and shaded, between 10 °C and 35 °C

APPLICATION LIMITATIONS

- Recommended application-temperature range: minimum 5 °C, maximum 30 °C; keep materials cool before mixing in warmer conditions.
- Do not apply when the surface is within 3 °C of the dew point, or within 5 °C when the temperature is falling.
- Keep airborne dust out of the wet layer to avoid surface craters or “fish-eye” defects.
- Clean equipment immediately using a confirmed compatible cleaning solvent.

Safety & Product Support

KREVO Floor PU-SL | Technical requirements and company contacts

CHEMICAL-RESISTANCE PROFILE

The specified exposure profile covers organic and inorganic acids, alkalis, fuel oils, hydraulic oils, and aromatic and aliphatic solvents. Selection for an individual chemical, concentration, exposure duration or operating temperature must be supported by a chemical-resistance assessment of the finished KREVO formulation.

FIRE, ENVIRONMENT & STANDARDS

QUALIFICATION CATEGORY	SPECIFIED CRITERIA / FRAMEWORK
Fire performance design criteria	UK Building Regulations, Approved Document B: Class 0; BS 476 Part 7: Class 1
VOC and environmental compliance criteria	SCAQMD Rule 1113; LEED NC2009 IEQ 4.2; DCL Green Building Regulations
Hygiene assessment framework	HACCP — CAC/RCP 1-1969
Slip-resistance assessment	BS 7976, with BS 4592 context

HEALTH & SAFETY

Intended for industrial use by trained flooring applicators. Before handling, mixing or application, obtain and review the current KREVO Safety Data Sheet (SDS). Wear suitable protective coveralls, chemical-resistant gloves, protective eyewear, safety footwear and respiratory protection where the site exposure assessment requires it. Provide adequate ventilation. Prevent contact with skin and eyes. Dispose of residues and packaging in accordance with applicable regulations.

SITE CONTROL & TECHNICAL GUIDANCE

- Check site conditions, substrate moisture, primer suitability and coating thickness before application.
- Do not dilute, adulterate or change the mix ratio without written KREVO technical approval.
- Protect freshly applied floors from traffic, moisture, contamination and temperature excursions until cured.
- Use product-specific approved method statements, SDS and quality records for critical installations.

PRODUCT INFORMATION & QUALITY STATEMENT

Technical support should be sought from KREVO for substrate-specific systems, chemical exposure requirements and applications outside standard conditions. Product suitability depends on correct substrate preparation, compatible materials and application by trained personnel.

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