KREVO Floor PU-Screed

Heavy-duty polyurethane-cement floor screed | Hygienic, slip-resistant finish | 6-12 mm

PRODUCT DESCRIPTION

KREVO Floor PU-Screed is specified as a heavy-duty, lightly textured polyurethane-cement hybrid wearing screed for industrial concrete floors. The system is designed for demanding wet and dry process areas requiring resistance to chemicals, impact, mechanical wear and elevated service temperatures. The cementitious polyurethane matrix forms a dense, liquid-resistant wearing surface.

ADVANTAGES

- High resistance to mechanical impact, abrasion and a wide range of industrial chemicals.
- Lightly textured finish designed to improve slip resistance under wet conditions.
- Dense, non-porous wearing surface intended for hygienic industrial operations.
- Suitable for heavy-duty processing and washdown environments when correctly specified.
- Thermal movement behaviour intended to be compatible with concrete substrates.
- Moisture-tolerant system design; no standing water is permitted during application.

TYPICAL USES

Food and beverage production • Pharmaceutical facilities • Chemical and processing plants • Manufacturing facilities and engineering workshops • Wet and dry industrial process areas.

PRODUCT INFORMATION

PARAMETER	SPECIFICATION
Chemical base	Water-based polyurethane-cement hybrid
Finish / texture	Lightly textured, slip-resistant screed
Mixed density | EN ISO 2811-1	Approximately 2.09 kg/L
Layer thickness	6-12 mm
Illustrative colour range (confirm availability)	Red, orange, yellow, bright yellow, cream, grey, light grey, green, light green, green/brown and blue
Packaging	Confirm available component / unit sizes with KREVO
Storage	Original sealed packaging; dry conditions at +5 °C to +30 °C
Shelf life	Refer to the best-before date on the original packaging

TECHNICAL PERFORMANCE SPECIFICATION

PARAMETER	SPECIFICATION
Compressive strength | EN 13892-2 (28 d, +23 °C)	55 N/mm^2
Modulus in compression | BS 6319-6	3,250 MPa
Flexural strength | EN 13892-2 (28 d, +23 °C)	14 N/mm^2
Tensile strength | BS 6319-7 (28 d, +20 °C)	6 MPa
Tensile adhesion | EN 1542	> 2.0 N/mm^2 (concrete failure)
Thermal expansion | ASTM C531	4×10^{-5} /°C
Fire reaction classification criterion | EN 13501-1	Class Bfl-s1
Slip resistance | DIN 51130	R11
Wet PTV | EN 13036-4 (slider 96)	40-45

Application & System Data

KREVO Floor PU-Screed | Thickness, coverage and temperature resistance

SERVICE-TEMPERATURE DESIGN LIMITS

INSTALLED SCREED THICKNESS	SERVICE TEMPERATURE RANGE
6 mm thickness	-25 °C to +80 °C
8 mm thickness	-40 °C to +120 °C
12 mm thickness	-40 °C to +130 °C; occasional short-term spillage up to +150 °C

High-temperature and steam-cleaning suitability depend on installed thickness, exposure duration, substrate conditions and the complete approved flooring system.

APPLICATION PROPERTIES

PARAMETER	SPECIFICATION
Recommended thickness	Approximately 6-12 mm
Primer application consumption	0.2-0.4 kg/m^2
Floor-screed consumption at 6 mm	13-16 kg/m^2
Floor-screed consumption at 8 mm	17-20 kg/m^2
Floor-screed consumption at 12 mm	24-26 kg/m^2
Product temperature	+10 °C to +30 °C
Ambient air temperature	+5 °C to +35 °C
Substrate temperature	+5 °C to +30 °C
Return to traffic at +8 °C (target)	Less than 24 hours
Accelerated return at +10 °C (conditional)	6 hours only with a separately validated, compatible accelerator system

Coverage and curing times are approximate and vary with substrate profile, application loss, temperature and site conditions.

TYPICAL SYSTEM BUILD-UP

LAYER	MATERIAL / SYSTEM REQUIREMENT
Layer 1 — primer	KREVO PRIME EP
Layer 2 — wearing screed	KREVO Floor PU-Screed, installed at the specified 6 / 8 / 12 mm thickness

SUBSTRATE PREPARATION

Concrete substrates must be sound and of sufficient strength: minimum compressive strength 30 N/mm^2 and minimum pull-off tensile strength 1.5 N/mm^2. Remove all loose or damaged concrete and repair local defects. Prepare the surface to a clean, profiled condition free of oil, grease, paint, curing agents, laitance, coatings, dust and friable material. Select an appropriate mechanical preparation process suitable for the approved screed system.

MOISTURE, YOUNG CONCRETE & CRACKS

The system may be considered for damp or young cementitious substrates following a suitability review; no standing water is permitted. Allow at least 7 days for early concrete shrinkage before covering newly placed cementitious substrates. Assess static and moving cracks individually, provide approved treatment at construction joints and maintain movement joints through the screed. Acceptance of 10-day concrete or 7-day polymer screed must be confirmed for the actual KREVO formulation.

Installation & Product Support

KREVO Floor PU-Screed | Quality, safety and global technical contacts

APPLICATION GUIDELINES

- Confirm site readiness, substrate strength, contamination, slope, moisture and working-temperature conditions before starting.
- Apply the approved compatible primer evenly at the specified rate; avoid pinholes or unprimed areas and follow the applicable primer cure window.
- Mechanically mix the polyurethane-cement screed components in the approved sequence and mixing ratio until uniform; do not add water, solvent or filler unless instructed in the KREVO system method statement.
- Place and compact the mixed screed at the designed 6, 9 or 12 mm thickness with appropriate screed tools. Finish evenly to produce the specified lightly textured, slip-resistant surface.
- Protect the installed floor from contamination, standing water and mechanical loading until the specified return-to-service condition is achieved.

LIMITATIONS & SERVICE NOTES

- Chemical suitability must be checked against the actual chemical, concentration, contact time and operating temperature.
- Do not bridge active movement joints. Incorrect crack assessment may lead to reflective cracking and a shorter service life.
- Assess hot-water cleaning, high-temperature discharge and freezer operation against the installed thickness.
- All application must be undertaken by trained, competent industrial flooring contractors using a KREVO-approved method statement.

HEALTH, SAFETY & ENVIRONMENT

Before handling or mixing, review the current KREVO Safety Data Sheet for each component. Wear suitable chemical-resistant gloves, safety goggles, protective coveralls and footwear; provide respiratory protection and ventilation based on the site exposure assessment. Prevent eye and skin contact. Follow local requirements for spill control, storage and disposal of waste and packaging.

QUALITY & PRODUCT INFORMATION

Performance of the installed flooring system depends on substrate quality, primer compatibility, component proportioning, mixing, ambient conditions, layer thickness and workmanship. Colour, packaging configuration, chemical-resistance details and any performance classifications must be confirmed for the production material supplied.

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