KREVO Floor EP-Coat

Solvent-free high-build epoxy floor coating | Chemical and abrasion resistant | Smooth or anti-slip finish

PRODUCT DESCRIPTION

KREVO Floor EP-Coat is specified as a two-component, high-build, solvent-free epoxy coating system designed to produce a dense, durable, decorative finish on prepared concrete floors. The coating provides a protective wearing surface for industrial and commercial environments subject to chemical splashes, mechanical traffic and regular cleaning. It may also be specified for suitable wall substrates.

ADVANTAGES

- High resistance to abrasion, routine impact and a broad range of industrial chemicals.
- Smooth, easily cleaned finish; a slip-resistant texture can be produced with compatible aggregate.
- High-build protective coating for floors and suitable vertical surfaces.
- Suitable for application without a separate primer where substrate condition and adhesion allow.
- Low-solvent formulation intended for industrial and commercial floor protection.

TYPICAL USES

Car park decks • Industrial process areas • Food, beverage and pharmaceutical facilities • Storage rooms and warehouses • Stairwells • Commercial and industrial floor protection.

PRODUCT INFORMATION

PARAMETER	SPECIFICATION
Chemical base	Two-component, solvent-free epoxy resin system
Finish	Smooth high-build finish; optional broadcast anti-slip finish
Standard application	Two coats, 150-200 µm wet film thickness per coat
Service temperature	+5 °C to +60 °C
VOC content - floor coating	<100 g/L (specified limit)
Colours	RAL 7001, 6029, 7035, 5017, 1001 and 3002; other colours subject to availability
Pack size	18 L complete set (specified configuration; confirm supplied unit)
Storage / shelf life	18 months in original sealed containers, dry and shaded, below +30 °C

TECHNICAL PERFORMANCE SPECIFICATION

PROPERTY / METHOD	SPECIFIED VALUE
Compressive strength | ASTM D695	>80 MPa
Compressive modulus | ASTM D695	>5,000 MPa
Flexural strength | BS EN 196	>50 MPa
Tensile strength | ASTM D638	>15 MPa
Abrasion | ASTM D4060, CS17 wheel	41.3 mg loss / 1,000 cycles
Impact resistance | ASTM D2794	No cracking
Bond to concrete | BS 1881	>2 MPa
Static friction | ASTM F609	Smooth: >0.6 dry / >0.6 wet; anti-slip: >0.9 dry / >1.2 wet

Application & System Data

KREVO Floor EP-Coat | Mixing, coverage, chemical resistance and substrate assessment

APPLICATION PROPERTIES

PROPERTY	+10 °C	+20 °C	+30 °C
Coating pot life	180 min	90 min	45 min
Optional moisture-tolerant primer pot life	360 min	180 min	90 min
Recoat interval	24-48 h	16-32 h	8-24 h
Full cure	14 days	7 days	5 days

Application temperature: +10 °C to +35 °C. Times are indicative and depend on temperature, humidity, film thickness and formulation. Recoat timing shall be verified under actual site conditions.

THEORETICAL COVERAGE & CONSUMPTION

SYSTEM COMPONENT	THEORETICAL COVERAGE
KREVO Floor EP-Coat	5-6.6 m^2/L per coat (at the stated film-build range)
Approved optional epoxy primer	5-6 m^2/L (where a primer is required)
Anti-slip aggregate broadcast	Generally 0.5-1.0 kg/m^2, depending on specified texture

Actual consumption depends on concrete porosity, substrate profile, application method, film thickness and losses; it can exceed the theoretical quantity by 20% or more.

CHEMICAL RESISTANCE

Specified resistance includes: 10% lactic acid, 50% sulfuric acid, concentrated bleach, saturated sugar solution, saturated urea solution, white spirit, oils, petrol, xylene and 10% ammonia. Suitability must be checked for each chemical concentration, exposure duration, temperature and cleaning regime.

SURFACE PREPARATION

Concrete must be sound, dry enough for the selected system and free from grease, oil, dirt, paint, previous coatings, cement laitance and loose particles. Remove defective concrete and repair voids. Mechanically prepare by shot blasting or an approved equivalent to an ICRI CSP 4-5 profile. Fill pinholes with a compatible epoxy repair or pore-filling compound and level irregularities before coating.

MOISTURE ASSESSMENT & PRIMING

Measure internal relative humidity to ASTM F2170. If RH exceeds 80%, perform moisture-vapour emission-rate testing to ASTM F1869 before selecting the primer or proceeding. A separate primer may be unnecessary for correctly prepared and suitably dry sound concrete, subject to adhesion tests. Use a compatible moisture-tolerant epoxy primer where required by moisture or substrate conditions.

MVER (lb / 1,000 ft^2 / 24 h)	SPECIFIED PRIMER TREATMENT
3-5	One coat of compatible moisture-tolerant primer at 165 µm WFT
5-12	Two coats of compatible moisture-tolerant primer, each 200 µm WFT

Mix KREVO Prime EP base and hardener to a uniform consistency using a low-speed drill; apply without puddles. On porous concrete a second coat may be necessary after the first is tack-free. Apply the next layer within the primer manufacturer's approved overcoating window.

Installation & Product Support

KREVO Floor EP-Coat | Application instructions, precautions and global contacts

MIXING

Mix full component packs only. Pre-stir the base, add the full measured hardener and mix with a slow-speed drill and suitable paddle for approximately 3 minutes until completely uniform in colour and consistency. Scrape sides and bottom while mixing. Do not dilute or change the specified component proportions.

COATING APPLICATION

- Apply by short-pile roller or suitable airless spray in two even coats, each at 150-200 µm wet film thickness.
- Check wet film thickness during application. Avoid over-application, ponding and entrapment of air.
- At +25 °C, a typical recoat interval is approximately 6-24 hours; confirm the actual accepted window before coating.
- Protect the coated floor from water, chemicals, dust and traffic until sufficiently cured.

OPTIONAL ANTI-SLIP FINISH

For a textured finish, uniformly broadcast an approved graded aggregate into the first coat while wet. Select fine, medium or coarse grading to suit the required slip resistance. A typical broadcast rate is 0.5-1.0 kg/m^2; allow cure, remove loose particles and seal with the finishing coat as specified.

APPLICATION LIMITATIONS

- Do not apply outside the stated +10 °C to +35 °C application temperature range.
- Do not apply when the substrate is within 3 °C of dew point, or within 5 °C and falling.
- Non-UV-stabilised epoxy may change colour or yellow in direct sunlight; use a qualified UV-resistant system where required.
- Prevent dust contamination, avoid solvent finishing and protect from water or chemical spillage until full cure.
- Do not discharge uncured material or washing solvent into drains or surface water.

HEALTH, SAFETY & CLEANING

Industrial use by trained applicators only. Review the Safety Data Sheets for each supplied component before handling. Use chemical-resistant gloves, splash goggles, protective coveralls and safety footwear; provide adequate ventilation and respiratory protection where indicated by assessment. Clean tools immediately with a compatible approved cleaner before resin cures. Hardened epoxy normally requires mechanical removal.

TECHNICAL & QUALITY NOTES

Mechanical properties, chemical resistance, VOC and classification values are specified performance criteria. Actual KREVO production formulation, laboratory validation, certification status and availability of variant or primer systems must be verified before issuing product-specific compliance statements. Published results are not a substitute for site compatibility testing.

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