KREVO Floor EP-AS

Conductive and dissipative epoxy flooring system | Self-smoothing | 2-4 mm

PRODUCT DESCRIPTION

KREVO Floor EP-AS is specified as a three-layer electrostatic-control epoxy flooring system consisting of an epoxy primer, a water-dispersed conductive base coat and a self-smoothing solvent-free epoxy wearing coat. Two grades are specified: conductive (CG) and static-dissipative (DG). The complete floor system is designed for controlled electrical resistance together with a smooth, easy-clean industrial wearing surface.

ELECTRICAL RESISTANCE GRADES

SYSTEM GRADE	POINT-TO-POINT & RESISTANCE-TO-GROUND RANGE
CG | Conductive	5×10^4 to 1×10^6 Ω
DG | Dissipative	5×10^6 to 1×10^9 Ω

Electrical ranges apply to a correctly designed, installed and earthed complete system. Acceptance requires electrical testing of the completed floor under the specified standard and conditions.

ADVANTAGES

- Controlled conductive or dissipative resistance for electrostatic-control installations.
- Dense, easily cleaned, gloss self-smoothing wearing finish.
- High resistance to mechanical impact, abrasion and common process chemicals.
- Low-VOC system components and rapid application using trained coating personnel.

TYPICAL USES

Electronic manufacturing and assembly plants • Hospitals • Clean rooms • Chemical handling and processing areas • Areas requiring electrical-charge control.

TECHNICAL PERFORMANCE SPECIFICATION

PROPERTY	SPECIFIED VALUE
Compressive strength	>60 MPa (8,700 psi)
Flexural strength	>30 MPa (4,350 psi)
Tensile strength	>20 MPa (2,900 psi)
Bond strength | substrate-dependent	>5 MPa (725 psi)

Mechanical results are stated for a 7-day cure; bond strength depends on concrete condition and the complete installed system.

PRODUCT INFORMATION

PARAMETER	SPECIFICATION
System	Three-layer primer / conductive base / solvent-free epoxy top coat
Total installed thickness	1.5-2.0 mm (60-80 mils)
Application temperature	+10 °C to +35 °C (+50 °F to +95 °F)
Shelf life / storage	18 months in sealed packaging; ≤ +35 °C, dry, shaded and frost-free
Finish	Self-smoothing, gloss; eight listed RAL colour options

Application & System Data

KREVO Floor EP-AS | System layers, coverage and environmental conditions

THREE-LAYER SYSTEM BUILD-UP

LAYER	COMPONENT / FUNCTION
1 | Primer	KREVO Prime EP
2 | Base coat	Water-dispersed electrically functional epoxy base coat
3 | Wearing coat	Self-smoothing solvent-free epoxy top coat (CG or DG grade)

THEORETICAL MATERIAL COVERAGE

SYSTEM COMPONENT	SPECIFIED COVERAGE / APPLICATION
Standard epoxy primer	10 m^2/L at 100 µm wet film thickness
Moisture-tolerant primer option	5 m^2/L at 200 µm wet film thickness
Electrically functional base coat	6.6 m^2/L at 150 µm wet film thickness
Self-smoothing top coat	1.5 L/m^2 at 1.5 mm installed thickness

Actual consumption varies with concrete porosity, surface texture, application method and site losses. Apply only at the thickness permitted by the system design.

POT LIFE & VOLATILE ORGANIC CONTENT

COMPONENT	POT LIFE AT +25 °C	VOC LIMIT
Standard epoxy primer	75 minutes	0 g/L
Moisture-tolerant primer option	120 minutes	<10 g/L
Electrically functional base coat	90 minutes	<20 g/L
Self-smoothing epoxy top coat	45 minutes	<50 g/L

PACKAGING & COLOUR OPTIONS

Specified pack configurations: epoxy primer 1, 5 and 15 L; functional base coat 4.5 and 18 L; epoxy top coat 17 L. Available unit sizes must be confirmed for KREVO supply. Specified colours: RAL 7035 Light Grey, 7042 Traffic Grey A, 7043 Traffic Grey B, 7001 Silver Grey, 1017 Saffron Yellow, 6017 May Green, 3002 Carmine Red and 5017 Traffic Blue.

CHEMICAL RESISTANCE

Specified resistance includes 10% lactic acid, concentrated bleach, saturated sugar solution, saturated urea solution, petrol, oils, greases and 10% ammonia. Confirm the exact chemical, concentration, contact duration and temperature for each project.

SUBSTRATE PREPARATION

Concrete must be structurally sound and free from oil, grease, coatings, corrosion products, dust, laitance and weak material. Remove and reinstate defective areas; mechanically prepare by captive blasting or approved equivalent to an ICRI CSP 4-5 profile. Fill blowholes with compatible pore filler and level uneven areas before application.

MOISTURE TESTING & PRIMER SELECTION

Test concrete internal relative humidity in accordance with ASTM F2170. If RH is over 80%, conduct moisture-vapour emission-rate testing to ASTM F1869. Select a compatible primer: standard primer if MVER <3 lb/1,000 ft^2/24 h; one moisture-tolerant coat at 165 µm WFT for 3-5; or two coats at 200 µm WFT each for 5-12. Confirm all thresholds and primer compatibility for the KREVO system.

Installation & Product Support

KREVO Floor EP-AS | Application, electrical checks, safety and contacts

PRIMING & CONDUCTIVE BASE COAT

- Mix KREVO Prime EP components with a low-speed drill until homogeneous. Apply with stiff brush or roller; avoid puddles. Apply a second coat if needed after the first is tack-free. Overcoat with base coat within 24 hours of priming, subject to conditions.
- Briefly pre-stir base-coat liquid components. Add base into hardener and mix using a suitable low-speed paddle for about 2 minutes. Apply the mixed base coat by medium-pile roller; avoid pouring directly on concrete.

TOP COAT MIXING & APPLICATION

- Pre-stir the top-coat liquid components; use a forced-action mixer to blend base and hardener to uniform colour. Add the specified filler gradually and continue mixing for approximately 2 minutes.
- Spread on the properly prepared base coat with a 4 mm notched V-rake and pin leveller, targeting a uniform 1.5-2.0 mm wearing thickness.
- Immediately use a spiked roller to release trapped air and remove levelling marks. Complete rolling within 20 minutes of spreading.

EARTHING, JOINTS & SYSTEM VERIFICATION

Provide continuity of the conductive layer and a designed connection to the earthing network under the direction of a qualified electrical specialist. Plan and treat construction, day and live joints to maintain electrical function. Verify point-to-point and resistance-to-ground values after installation using the project-approved method (for example ASTM F150 or IEC/EN 61340 as applicable), and document results for the selected CG or DG grade.

APPLICATION LIMITATIONS

- Do not apply below +10 °C; maximum ambient relative humidity 85%. Keep the substrate at least 3 °C above the dew point and do not coat when temperature is within 5 °C of the dew point and falling.
- Do not exceed the recommended system thickness or apply onto contaminated/dusty surfaces. Epoxy may discolour under direct sunlight.
- Do not use solvent for surface finishing; protect from water and cleaning liquids until fully cured. Clean equipment promptly with an approved compatible solvent; cured material requires mechanical removal.

HEALTH, SAFETY & QUALITY

Apply only through competent industrial coating contractors. Consult the current Safety Data Sheets for all KREVO components. Provide chemical-resistant gloves, eye protection, protective clothing, adequate ventilation and suitable respiratory protection according to risk assessment. Electrical-control performance, VOC content, laboratory values and standards-related claims must be confirmed against the manufactured KREVO system and verified by appropriate testing before certification or project acceptance.

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