# KREVO Prime EP

High-Penetration, Solvent-free Epoxy Primer | For protective coatings, Flooring and Structural Systems

## PRODUCT DESCRIPTION

KREVO Prime EP is a two-component, low-viscosity epoxy primer designed to penetrate suitably prepared concrete and promote bonding of compatible epoxy coatings and resin systems. The solvent-free primer helps seal pores and reduce substrate outgassing, creating a sound interface for subsequent protective layers.

## ADVANTAGES

- Low-viscosity, high-penetration epoxy formulation.
- Solvent-free and low-VOC formulation; formaldehyde-free design.
- Enhances adhesion of compatible coatings and floor toppings.
- Helps seal porous concrete and limit outgassing-related defects.
- Suitable for brush, roller or approved airless-spray application.

## TYPICAL USES

Concrete primer for epoxy floor coatings • Resin flooring and protective coating systems • Porous substrate sealing • Bond-promoting priming of prepared concrete prior to compatible epoxy toppings.

## PRODUCT INFORMATION

| PARAMETER | SPECIFICATION |
|---|---|
| **Material type** | Two-component epoxy primer (base and hardener) |
| **Formulation** | Solvent-free, low-viscosity, high-penetration resin |
| **Principal purpose** | Promotes coating adhesion; seals pores and reduces outgassing |
| **Substrate** | Structurally sound, prepared concrete; typically ICRI CSP 4–5 |
| **Application method** | Brush, roller or approved airless spray |
| **Theoretical coverage** | 10 $m^2$/L at approximately 100 µm WFT |
| **Packaging** | 1 L and 5 L packs; 1 quart and 1 gallon packs for USA |
| **Storage / shelf life** | 12 months; sealed, dry, shaded, below +30 °C |

## TYPICAL TECHNICAL PERFORMANCE | at +30 °C unless stated

| PROPERTY / TEST METHOD | SPECIFIED VALUE |
|---|---|
| **Volume solids** | 100% |
| **Specific gravity** | 1.05 ± 0.05 |
| **Pot life / touch dry** | 60 minutes / 3 hours at +30 °C |
| **Recoat interval / VOC** | 6–24 hours at +30 °C / < 10 g/L |

# Application & System Data

KREVO Prime EP | Substrate preparation, moisture assessment and application requirements

## APPLICATION PROPERTIES

| PARAMETER | TYPICAL VALUE | CONDITION | APPLICATION NOTE |
|---|---|---|---|
| **Pot life** | 60 min | at +30 °C | Mix full component packs only |
| **Touch dry** | 3 hours | at +30 °C | Protect from moisture and dust |
| **Recoat interval** | 6–24 hours | at +30 °C | Re-prime if interval is exceeded |

Working and drying times vary with temperature, humidity, substrate porosity and batch size. At +30 °C, apply subsequent compatible coatings within the 6–24 hour recoat window.

## TYPICAL SYSTEM BUILD-UP

| LAYER | MATERIAL / METHOD |
|---|---|
| **1 \| Substrate** | Sound concrete; clean and mechanically prepare to ICRI CSP 4–5 |
| **2 \| Repair** | Remove unsound concrete; fill blowholes with a compatible approved filler |
| **3 \| Moisture check** | Test RH to ASTM F2170; assess MVER to ASTM F1869 if RH > 80% |
| **4 \| Primer** | KREVO Prime EP applied evenly at approximately 120 µm WFT |
| **5 \| Finish** | Compatible epoxy coating or floor system within approved recoat window |

## SUBSTRATE PREPARATION

Concrete must be structurally sound and free of oil, grease, paint, corrosion deposits, curing compounds, dust, laitance and all bond-reducing contamination. Remove and reinstate weak concrete, then use captive blasting or suitable mechanical preparation to obtain a lightly exposed-aggregate profile, typically ICRI CSP 4–5. Fill bugholes and surface defects with an approved compatible repair filler.

## MOISTURE TESTING & PRIMER SELECTION

Measure in-situ concrete relative humidity using ASTM F2170. Where the reading exceeds 80% RH, assess moisture-vapour emission using ASTM F1869. Select the primer arrangement according to the recorded MVER and the approved coating-system design.

| MVER (lb / 1,000 ft$^2$ / 24 h) | PRIMER-SELECTION GUIDANCE |
|---|---|
| **Below 3** | KREVO Prime EP standard coat, approximately 120 µm WFT |
| **3–5** | Approved moisture-tolerant system, one coat at 165 µm WFT |
| **5–12** | Approved moisture-tolerant system, two coats at 200 µm WFT each |

MVER guidance is for primer-system selection only. When moisture emissions exceed the range suitable for standard priming, use an approved compatible moisture-tolerant primer system rather than KREVO Prime EP alone.

## PRIMING & COVERAGE

Apply KREVO Prime EP evenly by brush, roller or approved airless spray at approximately 120 µm wet film thickness, equivalent to 10 m$^2$/L theoretical coverage. Avoid ponding and excessive film thickness. Porous concrete may require a second coat; assess re-priming if overcoating is delayed beyond 24 hours. Actual consumption may exceed the theoretical figure by 20% or more.

# Installation & Product Support

KREVO Prime EP | Mixing, coating application, limitations and international contacts

## MIXING PROCEDURE

- Use clean mixing equipment and complete matched two-component packs only.
- Add the hardener (Part B) into the epoxy base (Part A).
- Mix with a suitable paddle at approximately 300-500 rpm for 3 minutes.
- Move the paddle throughout the container until a fully uniform mixture is obtained; do not alter the component proportions.

## APPLICATION & OVERCOATING

- Apply one uniform priming coat at approximately 100 µm WFT; use brush, roller or suitable airless-spray equipment.
- For airless application, the referenced operating pressure is approximately 2,200 psi; confirm a suitable tip and equipment setup.
- Allow the primer to become dry before applying the next compatible coat; typical recoat time is 6–24 hours at +30 °C.
- Re-prime where the maximum overcoating interval is exceeded; highly porous substrates may require a second primer coat.

## LIMITATIONS & SITE CONTROL

- Do not use as a crack-bridging treatment for moving structural or expansion cracks.
- Avoid application within 3 °C of dew point, or within 5 °C when the dew-point margin is decreasing.
- Prevent ponding, excessive application and contact with skin or eyes.
- Protect fresh primer from dust, moisture and contamination until overcoating.
- Clean tools promptly with a compatible approved solvent cleaner. Do not discharge uncured products or washings into drains.

## HEALTH, SAFETY & ENVIRONMENT

For industrial use by trained applicators only. Review the current Safety Data Sheet for both components before mixing or use. Wear chemical-resistant gloves, splash goggles and protective clothing; provide ventilation and respiratory protection as required by the site exposure assessment. Dispose of waste and containers in accordance with applicable regulations.

## QUALITY & PRODUCT INFORMATION

Technical performance depends on material consistency, accurate mixing, surface condition, moisture, temperature and workmanship. Product specifications, VOC and environmental-compliance statements should be verified against KREVO qualification and batch records before formal external technical approval.

## KREVO | GLOBAL CONTACTS

| ENGLAND | UNITED STATES | CHINA |
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