KREVO Shield EP-Mid

High-solids epoxy intermediate coating | Modified polyamido-amine cured | Steel protection

PRODUCT DESCRIPTION

KREVO Shield EP-Mid is a two-component, high-solids modified polyamido-amine epoxy protective coating for prepared steel surfaces. It provides high film build, edge protection and abrasion resistance, and is designed for use as a primer or intermediate coat in compatible atmospheric protective-coating systems over steel or suitable zinc primers.

ADVANTAGES

- High-solids epoxy coating for corrosion protection of prepared steel.
- Excellent film build and edge coverage with good abrasion resistance.
- Suitable for use over sound steel or qualified zinc-rich primer systems.
- Good surface tolerance and broad topcoat compatibility.
- May be used with suitable acrylic, alkyd, epoxy or polyurethane finishes.

TYPICAL USES

Industrial structural steel • Steel pipework and equipment • Marine and coastal atmospheric exposure • Protective steel-coating systems • Maintenance of plant and industrial structures

PRODUCT INFORMATION

PARAMETER	SPECIFICATION
Generic type	Two-component modified polyamido-amine epoxy
Colours	Red or grey
Finish	Semi-gloss
Recommended dry film thickness	100–200 µm (4–8 mils) per coat
Volume solids	Approximately 80% ± 2%
Theoretical coverage	32 m^2/L at 25 µm (8 m^2/L at 100 µm), before loss
Mixing ratio (A:B)	4:1 by volume; power-mix full matched kits
Packaging / shelf life	19 L kit (approx. 30 kg shipping); minimum 12 months

PRODUCT & PERFORMANCE PROPERTIES

PARAMETER / TEST	TYPICAL VALUE / GUIDANCE
VOC as supplied	200 g/L
Pot life at 25 °C	Approximately 3 hours; shorter in hot conditions
Dry temperature resistance	93 °C continuous; 121 °C intermittent
Airless spray thinning	Up to 15% with approved compatible reducer
Brush / roller thinning	Up to 5% with approved compatible reducer
Steel blast cleaning	SSPC-SP 10 / ISO 8501-1 Sa 2½; 25–50 µm profile
Galvanized steel preparation	Degrease and roughen, e.g. SSPC-SP 7 / SP 11
Topcoats / service	Acrylic, alkyd, epoxy or polyurethane; atmospheric use

Application & System Data

KREVO Shield EP-Mid | Curing intervals, surface preparation, mixing and coating sequence

CURING SCHEDULE | SURFACE TEMPERATURE

SURFACE TEMP.	DRY TO TOUCH	DRY TO RECOAT	MAX. RECOAT
+25 °C	3 h	7 h	Extended*
+35 °C	2 h	5 h	Extended*
Cool conditions	May increase	May increase	Inspect surface
Thick coatings	Allow longer	Allow longer	Check cure
*** Extended window**	Sound coating	Clean and dry	Prep if needed

Curing times are indicative at 50% relative humidity and 100–200 µm DFT. Higher film thickness, low temperatures or limited ventilation may extend curing. An extended recoat window requires the existing coating to be sound, clean, dry and suitably prepared.

TYPICAL PROTECTIVE COATING SEQUENCE

STAGE	MATERIAL / METHOD
1 | Surface inspection	Verify sound, dry, contamination-free steel and system suitability.
2 | Blast preparation	SSPC-SP 10 / Sa 2½; 25–50 µm profile; roughen galvanized steel.
3 | Component mixing	Power-mix A and B separately and combine at 4:1 by volume.
4 | Coating application	Spray or brush/roll evenly to 100–200 µm DFT per coat.
5 | Cure & inspection	Confirm coating integrity, film thickness and recoat readiness.

STEEL & GALVANIZED SURFACE PREPARATION

Ensure surfaces are sound, clean and dry, and remove oil, grease, dirt, rust and loose coatings. For steel, abrasive blast clean to SSPC-SP 10 / ISO 8501-1 Sa 2½ with a 25–50 µm surface profile. For galvanized steel, remove contaminants and abrade to a suitable mechanical key; check compatibility and adhesion before coating.

MIXING, THINNING & APPLICATION EQUIPMENT

Stir Part A and Part B separately, then combine at 4:1 by volume and power-mix to a uniform consistency. Use full matched kits; do not mix partial kits. Approximate pot life is 3 hours at 25 °C and reduces at higher temperatures. Any thinning must use an approved compatible reducer.

INSTALLATION CONTROL	SPECIFIED REQUIREMENT
DFT / theoretical coverage	100–200 µm per coat; 32 m^2/L at 25 µm before losses.
Environment	Material 10–32 °C; substrate 5–52 °C; air 5–43 °C; RH ≤85%.
Mixing / pot life	Part A:B = 4:1 (volume); approximately 3 h at 25 °C.
Cure at 25 °C	Touch dry 3 h; minimum recoat 7 h; clean sound surface.
Storage / service	Store indoors, sealed; atmospheric service, not immersion.

For airless spray, typical reference equipment uses a minimum 30:1 pump, a 0.015–0.021 inch tip and 2,100–2,300 psi working pressure. Where approved, thinner addition may be up to 15% for airless spraying or 5% for brush and roller. Multiple coats may be needed with manual methods.

ENVIRONMENTAL CONDITIONS & QUALITY CONTROL

Typical application limits: material 10–32 °C, surface 5–52 °C, ambient 5–43 °C and relative humidity up to 85%. Keep steel above dew point and free of condensation. Check surface cleanliness and profile, primer compatibility, wet and dry film thickness, curing and coating continuity.

Installation & Product Support

KREVO Shield EP-Mid | Mixing, spray application, recoat controls, safety and support

MIXING PROCEDURE

- Confirm product identity, packaging integrity, shelf life and application conditions.
- Agitate each component separately; combine Part A and B at 4:1 by volume.
- Power-mix thoroughly. Do not split kits; use mixed material within the pot life.
- Add only approved compatible thinner and only to the permitted application limit.

APPLICATION & INSPECTION

- Confirm steel is dry, contamination-free and blast cleaned to the specified profile.
- Apply by airless or conventional spray, or suitable brush/roller, to a uniform coat.
- Achieve the specified 100–200 µm DFT per coat; verify welds, edges and stripe coats.
- Before recoating, verify minimum curing time and a clean, sound surface condition.

LIMITATIONS & SERVICE NOTES

- Not recommended for immersion service without specific product-system qualification.
- Exposed epoxy coating may fade, lose gloss or chalk in UV and sunlight.
- Avoid condensation or excessive humidity during application and curing.
- Over inorganic zinc-rich primers, a mist coat may be needed to avoid bubbling.
- Any C5 High or CX Extreme protection claim applies only to a qualified full system.

HEALTH, SAFETY & ENVIRONMENT

For industrial use by trained applicators. Solvent-containing epoxy coatings may be flammable; isolate ignition sources and provide adequate ventilation. Use appropriate protective gloves, eye protection, clothing and respirators. Consult the current Safety Data Sheet for safe handling, application, storage, spill response and disposal.

QUALITY & PRODUCT INFORMATION

Coating service life depends on verified formulation, substrate preparation, recommended film thickness, compatible protective-coating system and adequate curing. Confirm project-specific system compatibility, batch test certificates and any required ISO 12944 classification before approval.

KREVO | GLOBAL CONTACTS

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