KREVO Shield PU-Top

High-gloss aliphatic acrylic polyurethane topcoat | Weather-resistant protective finish | Steel coating systems

PRODUCT DESCRIPTION

KREVO Shield PU-Top is a two-component aliphatic acrylic polyurethane finish coat for industrial protective coating systems. It is designed to provide a smooth, high-gloss decorative and protective finish with excellent resistance to weathering, abrasion and industrial exposure.

ADVANTAGES

- High-gloss, durable finish with excellent outdoor weathering properties.
- High-solids formulation with comparatively low VOC content.
- Good flow, colour and gloss retention with impact and abrasion resistance.
- Suitable for spray and roller application over compatible primed surfaces.
- Flexible coating-system design with compatible epoxy intermediate layers.

TYPICAL USES

Industrial structural steel • Plant equipment and exposed pipework • Marine and coastal atmospheric steelwork • Tanks and supporting structures (external) • Industrial maintenance topcoats

PRODUCT INFORMATION

PARAMETER	SPECIFICATION
Generic type	Two-component aliphatic acrylic polyurethane topcoat
Colours	Industrial colour range; colour availability to be confirmed
Finish	High gloss
Recommended dry film thickness	50–75 µm (2–3 mils) per coat
Volume solids	Approximately 70% ± 2%
Theoretical coverage	13.8 m^2/L at 50 µm; 9.2 m^2/L at 75 µm, before loss
Mixing ratio (A:B)	4:1 by volume; mix complete matched kits
Packaging / shelf life	1- and 5-gallon kit sizes; 24 months

PRODUCT & PERFORMANCE PROPERTIES

PARAMETER / TEST	TYPICAL VALUE / GUIDANCE
VOC as supplied	Approximately 264 g/L (shade dependent)
Pot life at 24 °C	Approximately 4 hours; decreases with temperature
Dry temperature resistance	93 °C continuous; 121 °C intermittent
Airless / conventional spray	Apply with suitable equipment; qualified thinner up to 20%
Brush / roller	Touch-up / selected areas; approved compatible reducer
Application over primed steel	Use a compatible cured epoxy / qualified primer system
Weathering / abrasion	Weather-resistant glossy finish; system testing is application-specific
Topcoat service	For exposed atmospheric environments; protect from moisture during cure

Application & System Data

KREVO Shield PU-Top | Curing, surface preparation, mixing, spray application and system controls

CURING SCHEDULE | SURFACE TEMPERATURE

SURFACE TEMP.	DRY TO HANDLE	DRY TO RECOAT	FINAL CURE
+2 °C	36 h	36 h	14 days
+10 °C	16 h	16 h	10 days
+24 °C	8 h	8 h	7 days
+32 °C	4 h	4 h	5 days
Reference basis	At 50 µm DFT	Clean, sound film	Conditions affect cure

Curing times are indicative at approximately 50 µm DFT. Thick coats, low temperatures and poor ventilation extend cure. Recoat only when the coating is clean, sound and dry. Maximum recoat intervals are generally open subject to adhesion and surface condition.

TYPICAL PROTECTIVE COATING SEQUENCE

STAGE	MATERIAL / METHOD
1 | Assessment	Confirm substrate, primer and coating-system compatibility.
2 | Preparation	Clean and dry; abrade, degloss and verify adhesion of existing film.
3 | Component mixing	Premix A, then combine A:B = 4:1 by volume and power-mix.
4 | Finish application	Apply by airless/conventional spray or qualified roller to 50–75 µm DFT.
5 | Cure & inspection	Verify film, finish, adhesion and recoat/handling times before service.

SUBSTRATE & PREVIOUS-COAT PREPARATION

Surfaces must be sound, dry and free of dust, salts, grease, oil and contamination. Apply over a compatible, properly cured primer or epoxy intermediate coat. Roughen and degloss previously painted surfaces, confirm adequate adhesion and remove all loose or defective material.

MIXING, THINNING & APPLICATION EQUIPMENT

Power-mix Part A separately; add the full measured Part B and mix thoroughly at a 4:1 A:B ratio. Do not split packs. For spray, use a qualified compatible reducer up to 20% where permitted. For brush or roller use only an approved reducer; avoid over-thinning and excess film build.

INSTALLATION CONTROL	SPECIFIED REQUIREMENT
DFT / theoretical coverage	50–75 µm per coat; 13.8 m^2/L at 50 µm before losses.
Application conditions	Material 10–38 °C; surface 2–49 °C; air 2–35 °C; RH ≤80%.
Mixing / pot life	Part A:B = 4:1 volume; approximately 4 h at 24 °C.
Cure at 24 °C	Dry to handle / recoat 8 h; final cure approx. 7 days.
Storage / service	Sealed indoors; dry conditions; protect uncured film from moisture.

Airless spray reference settings include a minimum 30:1 pump, 0.015–0.017 inch tip, 2,100–2,400 psi and a 60-mesh filter. Use qualified conventional spray equipment as required; apply brush mainly for touch-up and a suitable short-nap roller for larger areas.

ENVIRONMENTAL CONDITIONS & QUALITY CONTROL

Typical limits: material 10–38 °C; surface 2–49 °C; air 2–35 °C; RH up to 80%. Keep the substrate at least 3 °C above dew point. Protect fresh coating from rain, dew, moisture and excessive humidity until cured; check DFT, appearance and intercoat adhesion.

Installation & Product Support

KREVO Shield PU-Top | Mixing, application, curing checks, safety and global product support

MIXING PROCEDURE

- Verify the complete matched kit, colour, material temperature and expiry date.
- Power-mix Part A, add Part B at 4:1 by volume and mix until fully uniform.
- Do not part-mix kits. Use within approximately 4 hours at 24 °C, less when hot.
- Use only suitable approved thinner, within the permitted application limit.

APPLICATION & INSPECTION

- Confirm the qualified primer or epoxy intermediate is cured, sound and clean.
- Spray or roll evenly; keep a consistent wet edge for gloss and colour uniformity.
- Apply to 50–75 µm dry-film thickness per coat and inspect edges and welds.
- Observe the specified cure schedule before handling, recoating or service.

LIMITATIONS & SERVICE NOTES

- Intended as a topcoat within a suitably qualified protective coating system.
- Verify gloss, colour and aluminium/metallic finish consistency using trial panels.
- Protect liquid coating from rain, dew and moisture until it has fully cured.
- Avoid excess film build and coating over dusty, chalked or contaminated surfaces.
- High-temperature service may result in gloss loss or colour change.

HEALTH, SAFETY & ENVIRONMENT

For professional industrial application. Polyurethane components and solvent vapours require suitable ventilation, ignition-source control, gloves, eye protection and appropriate respiratory equipment. Read the current KREVO Safety Data Sheet (SDS) before handling; prevent contact with skin and eyes and dispose of residues in accordance with local regulations.

QUALITY & PRODUCT INFORMATION

Coating performance depends on verified formulation, mixing, compatible primers, surface preparation, application temperature, film thickness and curing. Confirm current KREVO manufacturing test reports and project-specific compliance before using technical data as certified product performance.

KREVO | GLOBAL CONTACTS

ENGLAND	UNITED STATES	CHINA
10 Shipley Avenue, Fenham Newcastle upon Tyne England NE4 9RA +44 7436 650806 info@krevo.uk krevo.uk	9209 S. Aeva Avenue Evergreen Park, IL 60805 +1 (773) 996-0846 info@krevo.us krevo.us	Office 235, 4th Floor No. 5 Inner China +86 139 5536 3625 krevo.cn