Coating, Chemical & Design Solutions Protecting Assets & Infrastructure

Technical Product Data Sheet

SURFACER 1000

Primer/Sealer for EPS & XPS Foams

Product Description

SURFACER 1000 is a 1k high-performance, moisture-curing, solvent-free MDI polyurethane primer/sealer specifically engineered for direct application onto EPS (Expanded Polystyrene) and XPS (Extruded Polystyrene) foams without attacking, softening, or dissolving the substrate.

The coating forms a durable, chemically resistant, UV- and moisture-protective membrane that converts vulnerable foam surfaces into a robust, paintable, and solvent-resistant composite skin. The cured film delivers the performance characteristics typically associated with two-pack polyurethane systems while maintaining the simplicity and convenience of a single-component application.

SURFACER 1000 enables rapid downstream processing and may be top-coated after approximately 30 minutes under normal ambient conditions.

Key Features & Benefits

- Solvent-free formulation — will not dissolve EPS or XPS foams
- Single-component system — no mixing required
- MDI polyurethane technology with high crosslink density
- Provides two-pack performance from a one-pack system
- Fast surface sealing and rapid cure
- Can be top-coated in approximately 30 minutes
- Excellent adhesion to EPS and XPS polystyrene foams
- UV-resistant protective barrier on its own
- Moisture-resistant and water-repellent coating
- Creates solvent-resistant surface protection
- Flexible yet abrasion-resistant cured film
- Low odour application
- Easy roller & brush application, or spray application (under advice from Crest Cormix)
- Suitable for interior and exterior exposure
- Can be top-coated with auto/ indust type solid 2k colours and/ or metallic/special effect 1k basecoat and high exterior performance 2k Clearcoat.

Typical Applications

- EPS architectural mouldings
- XPS insulation panels
- Foam props and scenic fabrication
- Composite sandwich panel preparation
- Marine buoyancy foams
- Themed environments and displays
- Foam prototyping and CNC foam shapes
- Protective foam encapsulation
- Insulated construction components
- Solvent isolation barrier prior to coating systems

Typical Properties

Property	Typical Value
Chemistry	Moisture-Curing MDI Polyurethane
Component Type	Single Component
Solids Content	100% Solids
VOC Content	< 20 g/L
Appearance	Clear to Amber Liquid/ also available in black
Finish	Satin / Semi-Gloss
Specific Gravity	1.05 – 1.15
Viscosity @ 25°C	1,500 – 3,000 cPs
Tack Free Time	15 – 25 minutes
Recoat Time	Approx. 30 minutes
Full Cure	24 hours
Shore Hardness	Shore D 55 – 70
UV Resistance	Excellent
Water Resistance	Excellent
Solvent Resistance	Excellent after cure
Adhesion to EPS/XPS	Excellent
Application Temperature	10°C – 35°C

Values shown are typical laboratory results and should not be considered specifications.

Substrate Compatibility

SURFACER 1000 is specifically formulated for:

- EPS (Expanded Polystyrene)
- XPS (Extruded Polystyrene)

Compatible with:

- Polyurethane foams
- Timber
- Fibre cement
- Concrete
- Primed metals

Surface Preparation

All substrates should be:

- Clean
- Dry
- Free from dust, grease, oils, and contaminants
- Structurally sound

For foam substrates:

- Remove loose foam particles prior to coating.

Application Instructions

Mixing

No mixing required. Stir gently before use if settling has occurred.

Application Methods

- Brush
- Roller
- Spray application (specific to guidelines from Crest Cormix)

Recommended Coverage

Application	Coverage
Primer/Sealer Coat	4 – 8 m²/L depending on porosity

Recommended Film Build

Coat Type	Wet Film Thickness
Standard Seal Coat	125 – 250 microns

Multiple coats may be applied for enhanced barrier protection.

Drying & Recoat Schedule

At 25°C and 50% RH:

Stage	Time
Surface Dry	15 – 20 minutes
Touch Dry	20 – 30 minutes
Recoat	~30 minutes
Light Handling	1 – 2 hours
Full Cure	24 hours

Low temperatures and high humidity may extend curing times.

The maximum re-coat time frame is 24 hours. If this is surpassed, the Polystyrene Foam needs to be re-coated with SURFACER 1000

Performance Characteristics

After cure, SURFACER 1000 provides:

- Durable encapsulation of polystyrene substrates
- Barrier protection against solvent attack
- Moisture ingress resistance
- UV stability for exposed foam applications
- Improved surface hardness and abrasion resistance
- Excellent intercoat-adhesion for subsequent coatings
- Flexible film with crack resistance

Recommended Topcoats

Suitable for use beneath:

- 2k Polyurethane Auto/ Ind primers & topcoats
- 2k EpoxyAuto/ Ind coatings
- Auto Special effect Basecoats/ with 2k Topcoat Clears
- 1k Auto Acrylic topcoats
- Acrylic paints
- Polyaspartic systems
- Waterborne coatings
- Decorative finishes

Always conduct compatibility testing prior to large-scale application. Contact Crest Cormix directly for specific recommendations.

Packaging

Available in:

- 5 Litre
- 20 Litre

Custom packaging available upon request.

Storage & Shelf Life

Store in the original, unopened containers in a cool, dry environment, away from direct sunlight and moisture.

Storage Condition	Recommendation
Storage Temperature	5°C – 30°C
Shelf Life	12 months unopened

Reseal containers immediately after use to prevent moisture contamination.

Safety Information

Contains isocyanates.

Avoid contact with skin and eyes. Use appropriate PPE, including:

- Gloves
- Eye protection
- Organic vapour respirator where required

Use in well-ventilated areas.

Refer to the Safety Data Sheet (SDS) before use.

Technical Support

For technical assistance, specification support, or application advice, contact your authorised SURFACER 1000 distributor/ or CREST CORMIX manufacturing.

Proudly Manufactured in Australia by;

CREST CORMIX PTY LTD
Factory: 13-15 Apollo Drive, Hallam, Melbourne
VICTORIA 3803
PH; +61 3 9887 0422 / Mob: +61 406 434 610
Email: enquiries@crestcormix.com.au

Web: www.crestcormix.com.au

DISCLAIMER