Topcoat Flex

One-component, semi-glossy, aliphatic, elastic polyurethane top coat

MINIMUM CONSUMPTION PER COAT	SERVICE TEMPERATURE	ELONGATION AT BREAK	COLOUR
0.20 kg/m²	-40 to +90 °C	> 250 %	White, grey

01 DESCRIPTION

Topcoat Flex is a one-component, aliphatic polyurethane top coat that cures with atmospheric humidity. Special inorganic fillers give it high hiding power, so where UV protection rather than traffic resistance is needed, one coat at minimum consumption is often enough. It is based on a pure elastomeric, hydrophobic polyurethane resin, giving excellent mechanical, chemical, thermal, UV and weathering resistance. Because it is aliphatic, it does not yellow under direct sunlight. It is the top coat for colour and UV protection of Hypertectum membranes. Apply with brush, roller or airless spray in one or two coats. Minimum consumption: 0.20 kg/m² per coat.

02 COLOUR

- White
- Grey

03 LIMITATIONS

Not recommended for:

- Unsound substrates
- Thick coats

04 MAIN FEATURES

- High hiding power, even in one coat
- Traffic resistant
- Strong, uniform adhesion to almost any surface
- Highly hydrophobic
- Highly durable in all weather; remains elastic down to -40 °C
- Excellent heat and UV resistance: does not yellow, peel or soften up to 90 °C
- High solar reflectance: SRI 106 for white (ASTM E1980)
- High resistance to chemicals and mechanical stress (high tensile strength and abrasion resistance)

05 RECOMMENDED FOR

Top coating of:

- Hypertectum membranes, for colour and UV protection
- Flooring applications

06 SUITABLE SUBSTRATES

Cured Hypertectum polyurethane membranes and flooring applications. For other substrates, contact ETS Europe.

07 SYSTEM BUILD-UP

01	→ 02	→ 03	→ 04
Substrate	Primer (where required)	Hypertectum membrane	Topcoat Flex

08 APPLICATION PROCEDURE

Surface preparation	Clean the surface with a high-pressure washer where possible. Remove oil, grease and wax. Remove cement laitance, loose particles, mould-release agents and old cured membranes. The surface must be dry.
Priming	Primer information is available on request from ETS Europe.
Mixing	Supplied ready to use. Stir carefully by hand or with a low-speed mixer (max. 300 rpm) to avoid trapping air. Sediment may form after long storage; mix mechanically until homogeneous.
Application	Brush, roller or airless spray, in one or two coats. Over a Hypertectum membrane, apply within 24–72 hours of the last membrane coat, depending on weather conditions. Do not exceed 48 hours between coats.

09 CONSUMPTION

Per coat	Min. 0.20 kg/m²
Total	0.20–0.60 kg/m², depending on traffic
Coats	1 or 2

10 CLEANING

Wipe tools with paper towels, then clean with a suitable solvent. Rollers cannot be re-used.

11 PACKAGING

5 kg, 20 kg

12 STORAGE

At least 12 months in the original unopened containers, in a dry place at 5–25 °C. Once opened, use as soon as possible.

13 SAFETY

Contains volatile, flammable solvents. Apply in well-ventilated areas; no smoking and no naked flames. In enclosed spaces, use ventilators and activated-carbon masks. Solvent vapours are heavier than air and spread along the floor. See the Safety Data Sheet.

14 TECHNICAL DATA — LIQUID (BEFORE APPLICATION)

PROPERTY	UNIT	METHOD	VALUE
Viscosity (Brookfield)	cP	ASTM D2196, 25 °C	400–800
Density	g/cm³	ASTM D1475 / ISO 2811, 20 °C	1.15–1.25
Tack-free time (25 °C, 55 % RH)	h	–	6–8
Recoat time	h	–	24

15 TECHNICAL DATA — CURED MEMBRANE

PROPERTY	UNIT	METHOD	VALUE
Service temperature	°C	–	-40 to +90
Max. short-term (shock) temperature	°C	–	200
Hardness	Shore D	ASTM D2240 / ISO 868	40
Tensile strength at break at 23 °C	kg/cm² (N/mm²)	ASTM D412 / EN ISO 527-3	> 200 (> 20)
Elongation at break at 23 °C	%	ASTM D412 / EN ISO 527-3	> 250
Water-vapour transmission	g/m²·h	ASTM E96 (water method)	0.8
Thermal resistance (100 days at 80 °C)	–	EOTA TR011	Passed
QUV accelerated weathering (4 h UV at 60 °C, UVB lamps + 4 h condensation at 50 °C)	–	ASTM G53	Passed (2,000 h)
Hydrolysis (8 % KOH, 10 days at 50 °C)	–	–	No significant change in elastomeric properties
Hydrolysis (5 % NaOCl, 10 days)	–	–	No significant change in elastomeric properties
Water absorption	%	–	< 1.4

The information in this data sheet reflects current techniques and our best knowledge. Because the use of the product is beyond our control, neither the manufacturer nor the distributor can be held responsible for results. Instructions not covered by this data sheet require written confirmation from head office. Our general terms and conditions apply. This data sheet cancels and replaces all previous versions.