

TECHNICAL DATA SHEET

ELASTA-THANE DETAILER

One-component, polyurethane membrane used for roof-details Waterproofing

DESCRIPTION:

Elasta-thane Detailer is a thixotropic and fibre-reinforced, one component polyurethane liquid membrane used for waterproofing and protection of roof detail structures. Due to its unique formulation, it cures rapidly to form a bubble free thick layer membrane with excellent mechanical properties. This product is ideal for use during the winter months or in climates with relatively low humidity.

COMPLIANCE:

The product complies with the EU guideline for this type of materials, EOTA (European Organization of Technical Approval).

Current product is awaiting ETAG assessment certification.

RECOMMENDED FOR:

Waterproofing and protection of:

- Flashings.
- Wall-floor connections.
- Chimneys.
- Pipes.
- Photovoltaic systems.
- Air-condition units.
- Gutters.

FEATURES & BENEFITS

- No reinforcement necessary in flashing points
- Fast curing! Skin formation time of 2 hours.
- Bubble and defect free membrane.
- Excellent weather and UV resistance.
- Excellent thermal resistance, the product never turns soft. Recommended service temperature
- 80°C, max shock temperature 200°C.
- Resistance in the cold: The film remains elastic even down to -40°C.
- Excellent mechanical properties, high tensile and tear strength, high abrasion resistance.
- Good chemical resistance.

LIMITATIONS:

Not recommended for:

- Unsound substrates,
- Waterproofing of swimming pool surfaces in contact with chemically treated water.
- **Primer usage is necessary**, please refer to primer selection table or contact our technical department.

APPLICATION PREREQUISITES:

Can be successfully applied on:

Concrete, fibrous cement, mosaic, cement roof tiles, old (but well adhered) acrylic and asphalt coats, wood.
For information about other substrates, please contact our tech department.

Concrete substrate conditions (standard):

- Hardness: R28 = 15Mpa.
- Humidity: W < 10%.
- Temperature: 5-35°C.
- Relative humidity: < 85%.

Primer selection for special conditions and substrates:

Please refer to the Primer Selection Table.

APPLICATION PROCEDURE:

Clean the surface using a high-pressure washer, if possible. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, cured membranes must be removed. Fill surface irregularities with suitable product.

Priming:

Apply the required primer following the guidelines in the Primer Selection Table.

Application:

Apply the material with brush or roller.. Do not exceed 48 hours between coats. If more time passes (for example more than 4 days), or if you are unsure of the interlayer adhesion, please contact our technical department.

IMPORTANT APPLICATION NOTES

- Under no circumstances are Primers, Topcoats or Detailers to be applied at temperatures below 5°C.
- It is essential that all Primers and Topcoats are allowed completely dry before over-coating.
- Drying time will depend on the local climatic conditions, and the lower the ambient and surface temperature, the greater will be the drying time. (Can be between 2 hours and 2 days.)
- Applicators must physically check before continuing
- **DO NOT APPLY UNLESS DRY**

COVERAGE:

Approx. 1.8kg/m² per coat depending on substrate.

PACKAGING:

1kg, 5kg, 15kg

CLEANING:

Clean tools and equipment first with paper towels and then using SOLVENT-01. Rollers will not be re-usable.

SHELF LIFE:

Can be kept for a maximum of 12 months, in the original unopened pails, in dry environment and at temperatures of 5-25 °C. Once a pail has been opened, the contents must be used as possible.

PRECAUTIONS:

Contains volatile flammable solvents. Apply in well-ventilated, no smoking areas, away from naked flames. In closed spaces, use ventilators and carbon active masks. Note that solvent vapours are heavier than air so they creep along the floor. The MSDS (Material Safety Data Sheet) is available on request.

TECHNICAL SPECIFICATIONS

In liquid form. (before application):-

Property	Units	Method	Specification
Viscosity (BROOKFIELD)	cP	ASTM D2196-86, @ 25 oC	5000-7000
Specific weight	gr/cm3	ASTM D1475 / DIN 53217 / ISO 2811, @ 20°C	1.4-1.5
Flash point	°C	ASTM D93, closed cup	42
Tack free time, @ 77 °F (25°C) & 55% RH	hours		2-3
Recoat time	hours		6-48

The Cured membrane:-

Property	Units	Method	Specification
Service temperature	°C	-	-40-80
Max. temperature short time (shock)	°C	-	200
Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	70
Tensile strength at break @ 23°C	Kg/cm2 (N/mm2)	ASTM D412 / EN-ISO-527-3	80 (8.5)
Percent elongation @ 23°C	%	ASTM D412 / EN-ISO-527-3	>200
QUV Accelerated Weathering Test (4hr UV, @ 60°C (UVB Lamps) & 4hr COND @ 50°C	-	ASTM G53	Passed (2000 hrs)

PRIMER SELECTION TABLE

Substrate type and condition	Elasta-Thane Super Seal Primer	Elasta-Thane Rapid Cure Primer	Elasta-Thane Universal Primer
Humid	X		X
Porous	X	X	X
Humid and porous	X		X
Non-porous			
glass & glassy tiles	X		X
metals	X		X
marble	X		X
mosaics	X		X
industrial floors	X		X
PU membranes (between coats)	X		X
Asphaltic	X		X
Wood	X	X	X

Further Information:

In the event of further queries or problems concerning the use of this product, please contact the address below, e-mail info@cromar.uk.com.

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Units 3,4,5 Northside Industrial Estate, Whitley Bridge, North Yorkshire DN14 OGH

www.cromar.uk.com

Tel: 01977 663133 Fax: 01977 662186 E-mail: info@cromar.uk.com