

# TECHNICAL DATA SHEET

## ProGuard Rapidcure

**A novel, all weather rapid curing, single component polyurethane liquid membrane for waterproofing and protection.**

### DESCRIPTION:

**ProGuard Rapid Cure** is a single component polyurethane fluid which cures with the humidity in the atmosphere. It produces a highly elastic membrane with strong adhesion to many types of surfaces. It contains a small percentage of xylol. It is based on pure elastomeric hydrophobic polyurethane resin plus special inorganic fillers, which result in excellent mechanical, chemical, thermal, UV and natural element resistance properties.

### 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:

- Concrete,
- Gypsum and cement boards,
- Polyurethane insulation foams,
- Verandas and balconies,
- Roofs,
- Light roofing made of metal or fibrous cement,
- Asphalt membranes,
- EPDM membranes
- Tanks,
- Stadium stands,
- Car parks,
- Bridge platforms,
- Irrigation channels.

### BENEFITS

- Excellent adhesion to almost any type of surface, with or without the use of special primers.
- No thinning is required.
- Excellent weather and UV resistance.
- Excellent thermal resistance, the product never turns soft. Max service temperature 80°C, max shock temperature 200°C.
- Resistance to cold: The film remains elastic even down to -40°C.

- Excellent mechanical properties, high tensile and tear strength, high abrasion resistance.
- Good chemical resistance.
- Non-toxic after full cure.
- Water vapour transmission: The film breathes so there is no accumulation of humidity under the coat.
- Special primers available for almost any substrate.
- Special additives, like Rapidcure Catalyst, are available.

### **LIMITATIONS:**

Not recommended for:

- Unsound substrates,
- Waterproofing of swimming pool surfaces in contact with chemically treated water.
- **Primer usage is recommended**, 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, galvanized steel.

For information about other substrates, please contact our tech department.

### **Concrete substrate conditions (standard):**

- Hardness:  $R_{28} = 15\text{Mpa}$ .
- Humidity:  $W < 10\%$ .
- Temperature:  $5\text{-}35^{\circ}\text{C}$ .
- 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.

Reinforce all joints with Elastatex reinforcement tape.

### **Priming:**

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

### **Mixing:**

Use a low speed (300 rpm) mixer.

Add SOLVENT- 01 5-10% for application by spraying.

### **Application:**

Apply the material with roller, brush or airless spraying in at least two, coats. 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 or Topcoats to be applied at temperatures below  $5^{\circ}\text{C}$ .
- 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:**  
(Dependent on substrate)

1.5 - 1.8kg/m<sup>2</sup>

**PACKAGING:**

6KG AND 25KG DRUMS

**CLEANING:**

Application equipment 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.

**PRIMER SELECTION TABLE**

Substrate type and condition	Elasta-Thane Super Seal Primer	Elasta-Thane Rapid Cure Primer	Elasta-Thane Universal Primer
<b>Humid</b>	X		X
<b>Porous</b>	X	X	X
<b>Humid and porous</b>	X		X
<b>Non-porous</b>			
glass & glassy tiles	X		X
metals	X		X
marble	X		X
mosaics	X		X
industrial floors	X		X
<b>PU membranes (between coats)</b>	X		X
<b>Asphaltic</b>	X		X
<b>Wood</b>	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](mailto:info@cromar.uk.com).

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