

Product Data Sheet

Delta Roof Guard General Primer

(DMS803)



A single component polyurethane resin primer for improving the adhesion of Delta Roof Guard CP and QC systems to various substrates such as dry old: concrete, masonry, bitumen roofing and asphalt.

Flexible aromatic, one-component, moisture cure polyurethane resin for sealing and priming bituminous supports. This resin cures by air moisture giving a flexible coating. It is an excellent polyurethane primer for recoating old bituminous layers with polyurea or polyurethane waterproofing systems.

TECHNICAL DATA

Information on the product before application

Chemical Description: Moisture-cured, monocomponent polyurethane resin, in organic solvent

Physical State: Liquid

Packaging: Metal container: 4kg, 20kg

Non-Volatile Content (%): 69%

Flash Point: 36°C (ASTM D 93)

Available Colours: Slightly yellow

Density: 1.0g/cm³ (25°C)

Viscosity Approximate, Brookfield	TEMPERATURE (°C)	VISCOSITY (mPa.s)
	10	800
	20	350
	30	270

VOC (g/L i %): 300g/L
VOC Class as per 200/4/42/EC: 31% by weight
Product subclass: h 2 Consolidating primers solvent based
Phase II from 01/01/2010 on: 500g/L

Pot Life: 2 hours (1kg, 25°C, 60% rh)

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Application

- Suitable for cold or warm roof construction
- Balconies and terraces
- Podium decks
- Car parks
- Infrastructure
- Walkways
- Ideal for new construction and refurbishment projects



Benefits

- BROOF(t4)
- BBA Approved
- Flexible coating
- Polyurethane primer for recoating old bituminous layers
- Minimises adhesion failure
- Strengthens and seals ready for application of Delta Roof Guard CP or QC
- Quick installation times
- Compatible with a wide range of substrates
- Dry old: concrete, masonry, bitumen roofing and asphalt.



Specifications

- BS 8102:2009 Type C Drained Protection
- J40 (Clause 290) Flexible Sheet Tanking/Damp Proofing
- J31 Liquid Applied Waterproof Coatings/130 Roof Coatings
- J31/10 Warm Deck Roof Coating
- J31/110 Cold Deck Roof Coating
- J31/120 Warm Deck Roof Coating
- J31/130 Inverted Roof Coating
- J31/5 Cold Deck Roof Coating
- J41 – Reinforced Bitumen Roof Coating

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Storage Keep below 25°C in a dry place, away from heat and ignition sources

Use Before Use before 12 months after manufacturing

Information on the final product

Final State Solid film

Colour Colourless to slightly yellow

Hardness (Shore) 65A (ISO 868)

Mechanical Properties Elongation at break: 300%
Tensile strength: 4.1 mPa

Adhesion Strength Concrete: 4.4 mPa

UV Resistance Delta Roof Guard General Primer is an aromatic PU-based product. It will turn to yellow when exposed to sunlight but without impairment of its mechanical properties.

Thermal Resistance Stable up to 80°C

Support Requirements

For a good adhesion, support must be cohesive and compact, clean, dry with no dust, laitance or loose material. If previous blisters are detected, they must be repaired before primer application.

Ambient Conditions

Support temperatures should be between 5°C and 30°C. High temperatures may give rise to bubble formation under the coating surface, or an uneven film due to the fast solvent evaporation.

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Application

Can be applied by brush, roller or by airless spraying equipment. Although not strictly necessary, it is recommended to use all the contents of the can. If not, ensure the remaining is kept tightly sealed after use. It can be applied as such, but often in a first coat, it is diluted up to 5% with Delta Roof Guard PU Solvent. Do not use other solvents for dilution. Usual amounts applied range from 100 to 300g/m².

Curing Time

Curing time depends strongly on the ambient conditions. The higher the temperature and humidity, the faster Delta Roof Guard General Primer cures. The following table gives approximate values of curing time for 500g/m² wet films.

Conditions	Dry to touch (h)
16° C, 50% rh	4
20° C, 50% rh	3.5

Reapplication

It is possible to apply a second coat or to resume job with the following coating from the moment when it is dry to touch up to 48 hours afterwards. It is important to ensure all the solvent has disappeared, in order to avoid bubble development under the sealer surface.

Tool Cleaning

Use Delta Roof Guard PU Solvent.

Safety

Delta Roof Guard General Primer contains isocyanates and flammable solvents. Always follow the instructions provided in the Material Safety Data Sheets.

Environmental Precautions

Empty containers must be handled, taking the same precautions as if they were full. Containers must be considered as hazardous waste, to be transferred to an authorised waste manager. If there is some residual product in the containers, do not mix it with other substances without checking for possible dangerous reactions.

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Other Information

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