PRODUCT DATA SHEET

Delta Roof Guard Colodur

COLD LIQUID APPLIED WATERPROOFING



Description

A high performance one-component aliphatic isocyanate-based polyurethane resin, that cures upon reaction with atmospheric moisture, giving a hard and flexible coatings with good abrasion, scratch and weather resistance. Colodur is an excellent surface protection for use over Delta Roof Guard membranes.

Pigmented Colodur will not allow UV light through. Clear Colodur allows UV light through. Delta Roof Guard Colodur can be delivered colourless or pigmented with standard colour. Colourless product can be pigmented on site by addition of suitable colour paste.

Features

- Broof(t4)
- BBA Approved
- Gives Protective UV Topcoat to Delta Roof Guard CP and QC
- Pigmented Colodur does not yellow on exposure to sunlight
- Scratch and weather resistance
- Upon reaction with atmospheric moisture gives a hard and flexible coating
- Quick installation time
- One-component

Specification

- BS 8102:2022 Protection of below ground structures against water ingress. Code of practice.
- 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

Product Details

DMS 813

Application

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

Storage

- Keep at a temperature below 35°C, away from ignition sources and moisture.
- Product may be used up to 12 months (colourless) or 6 months (pigmented) after manufacture in its sealed original container.

Mixing

If necessary, dilute with up to 10% Delta Roof Guard PU Solvent for viscosity adjustment. Note: on non-porous substrates, do not dilute the first coat. Stir gently before use. Use low-speed stirring equipment to minimise air bubbles.

Delta Roof Guard Colodur

Technical Data

General Information	
Chemical Description	Solvent Borne Single-Component Aliphatic Polyurethane
Physical State	Liquid
Packaging	Metal Container: 4/20kg (Colourless) 5kg/25kg (Pigmented)
Non-Volatile Content (%)	>50% (Colourless) >70% (Pigmented)
Flash Point	36°C (ASTM D 93)
Available Colours	Colourless. Pigmented in white and grey. Other colours under request.
Density	Colourless: 0.95g/cm3 (20°C) Pigmented 1.35 g/cm3 (20°C)

Information on the Final Product	
Final Appearance	Solid Elastomeric Membrane
Colour	Colourless. White and grey pigmented. Other colours available under request
Hardness (Shore)	53D (Colourless) 60D (Pigmented)
Mechanical Properties	**Colourless** Maximum Elongation: 173% Tensile Strength: 27.4 mPa **Pigmented** Maximum Elongation: 70%
Water Vapour Permeability	2.7g/m² Day (UNE EN ISO 7783)
Abrasion Resistance	11mg (Taber, CS-10.1kg)
UV Resistance	UV Resistant. Aliphatic Polyurethane are colour-stable, non-yellowing
Slip Resistance	With Quartz Sand Spread onto (0.4-0.9mm) at 1kg/m3 class 3 as per UNE EN 12633- 2003
Thermal Resistance/Use Temperature	Stable up to 80°C
SRI Index (ASTM E1980-01)	104.5-105.4 (White Pigmented)

Curing Time

Curing time is dependent on the environmental conditions. Curing rate increases with temperature and humidity rises.

Support Requirements

In order to achieve a good penetration and bonding, support must be:

1. Flat and levelled (the product is self-levelling)
2. Compact and cohesive (pull off test must show a minimum resistance of 1,4 N/mm2)
3. Even and regular surface
4. Free from cracks and fissures. If any, they must be previously repaired
5. Clean and dry, free of dust, loose particles, oils, organic residues, or laitance

Recommended Environmental Conditions

Support temperature should be between 5°C and 30°C. At higher temperatures, specific precautionary measures must be taken. Please follow manufacturer advice. Support moisture should be less than 4%. Relative humidity of air should be less than 85% high moisture conditions can lead to bubble formation under the membrane surface.

Reapplication

A second coat of Delta Roof Guard Colodur can be applied when the first one is no longer sticky. Do not wait more than 24 hours for the next coat application to ensure good intercoat adhesion.

Return to Service

At usual conditions (25°C, 50% rh) the membrane can be walked on (light traffic) in 24-48 hours. Depending on final use, it is recommended to wait 7-10 days for very heavy traffic. Final hardness development may take up to 15 days.

Safety

Delta Roof Guard Colodur contains isocyanates and flammable solvents. Always follow the instructions provided in the material safety data sheet and take the precaution described there. As a general rule, suitable ventilation must be ensured, and all ignition sources must be avoided. This product is intended to be used only for the uses and in the way here described. This product is to be used only by industrial or professional users. It is not suitable for DIY-type uses.

Other Information

All data and information contained in these Product/Technical Data Sheets is up-to-date and correct as at the date of issue. The information given is suggested as guidance and should only be used for evaluating your specific application. Delta Membrane Systems Limited cannot control or anticipate the conditions under which this product may be used, each user should review the information in specific context of the planned use. The information contained in these Product/Technical Data Sheets should not be considered a warranty, expressed, or implied, including but not limited to a warranty of merchantability or fitness for a particular purpose. In no event shall Delta Membrane Systems Limited be liable for any incidental or consequential damages resulting from the use, misuse, or inability to use the product. This exclusion applies regardless of whether such damages are sought based on breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory. When in doubt, contact Delta's Technical Team on 01992 523 523.