



CS 100 – U81

One component, aliphatic, high traffic polyurethane liquid membrane

Product

CS 100 –U81 is a one component, fully aliphatic polyurethane liquid membrane suitable for use as a top coat for traffic deck coating systems.

CS 100 –U81 is curing with air-moisture and provides a bubble-free membrane without any defects. It displays very strong adhesion to CS 100 –U, excellent mechanical properties and UV resistance by retaining its color stability over time.

CS 100 –U81 is self-leveling product that can applied in one single coat. Consumption: 1,5- 2 Kg/m2 .

Primary applications

Waterproofing and protection top coat in:

- ✓ traffic deck coating systems.
 - ✓ roofs.
 - ✓ polyurea coatings (top coat).
 - ✓ light roofing made of metal or fibrous cement.
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Advantages

- ✓ Excellent abrasion, scratch, impact and UV resistance.
 - ✓ Excellent mechanical properties, high tensile and tear strength.
 - ✓ Very good chemical and hydrolysis resistance properties.
 - ✓ Very elastic.
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TECHNICAL DATA

Packaging (kg)				Color	
1	6	15	25	Grey	Upon Request
Recommended Thickness				Shelf Life	
Top coat 0.3-0.5 mm total				Can be kept for minimum 12 months in the original unopened pails in dry places and at temperatures of 5-25 °C. Once a pail has been opened, use as soon as possible.	
Mix Ratio by volume					
N/A					
<p>CS 100 –U81 complies with the following: ETAG 005, Part 1 & Part 6 Liquid Applied Roof Waterproofing Kit, based on Polyurethane DIN 53505 / ISO R868, EN-ISO-527-3, DIN 53217 / ISO 2811</p>					
Liquid					
Flash Point (°C) ASTM D93		Viscosity (BROOKFIELD) - cP ASTM D2196-86		Density (kg/lt) ASTM D1475	
42		4500-6500		+/- 1.35	
Tack free time, @77°F (25 °C) & 55% RH		Recoating Time (hours)			
4 hours		6-24			
Membrane					
Service Temperature				-40°C to 80°C	
Max shock temperature				200°C	
Curing Details		Foot traffic		12-24 hours	
		Light traffic		3 days	
		Full cure and chemical resistance		7 days	
<p><i>*Note: Times and data mentioned are based on laboratory conditions. Field results may vary and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.</i></p>					



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<u>PROPERTIES @ 23°C</u>	
Abrasion Resistance (mg loss) ASTM D6040 (CS17/1000/1000)	Water Vapor Transmission (gr/m2.hr) ASTM E96
< 12	0.7
Hardness (Shore A) ASTM D2240	Tensile Strength at Break (N/mm2) ASTM D412
85-90	17
Percent Elongation (%) ASTM D412	Thermal resistance (100 days @ 80 °C) EOTA TR011
>350	passed
QUV Accelerated Weathering Test (4hr UV, @ 60 °C (UVB-Lamps) & 4hr COND @ 50 °C) ASTM G53	passed (2000 hours)

SURFACE PREPARATION

Clean the surface using a high-pressure washer, if possible. Remove laitance, loose particles, oil, grease, wax contaminants, mould release agents, any cured membranes. Further primer information available on request. The application surface must be dry.

It must be applied within 24-72 hours from application of CS 100 – U products, depending on weather conditions.

MIXING

Use a low speed (300 rpm) mixer.



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APPLICATION

Apply the material with roller, brush or airless spraying in one or 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.

Minimum total consumption: 1.5 kg/m².

CLEANING

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

RESTRICTIONS

- Not recommended for:
- ✓ Unsound substrates.
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HEALTH AND SAFETY

Contains volatile flammable solvents. Apply in well-ventilated, non-smoking areas, away from naked flames. In closed spaces use ventilators and carbon active masks. Keep in mind that solvents are heavier than air so they creep on the floor. The MSDS (Material Safety Data Sheet) is available on request.

IMPORTANT NOTICE

The information and recommendations contained in this document are based on reliable test results according to ICR COATING SYSTEMS. The data mentioned are specific to the material indicated. If used in combination with other materials, the results may be different. It is the responsibility of the user to validate the information therein and to test the product before using it. ICR COATING SYSTEMS assumes no legal responsibility for the results obtained in such cases. ICR COATING SYSTEMS assumes no legal responsibility for any direct, indirect, consequential, economic or any other damages except to replace the product or to reimbursement the purchase price, as set out in the purchase contract.
