

Fast curing, thick layer, one-component, polyurethane liquid membrane for waterproofing and protection

Product

CS 100– UHA is a special one-component polyurethane liquid membrane, based on CS 100–U liquid polyurethane and a built-in accelerating agent. This agent is further triggered with the moisture in the air and causes an accelerating curing of the product. The result of this special formulation, is a fast curing liquid product that may be applied in thicker coats and forms a bubble-free waterproofing membrane with very strong mechanical and elastomeric properties.

CS 100– UHA is ideal to be used in low temperature or relatively low humidity climatic conditions. The results of achieving the minimum required product consumption with only one thicker coat are labor cost reduction due to faster operation and elimination of potential interlayer adhesion failures in multi-coat applications.

Apply with brush, roller or airless spraying Minimum consumption: 1.8-2.2 kg/m².

Primary applications

Waterproofing and protection of:

- \checkmark roofs, verandas and balconies
- ✓ polyurethane insulation foams
- ✓ light roofing made of metal or fibrous cement
- ✓ gypsum and cement boards
- ✓ asphalt and EPDM membranes

<u>Advantages</u>

- ✓ Bubble free membrane without any defects.
- ✓ Pretty fast skin formation on the membrane within 2-3 hours.
- ✓ Excellent weather and UV resistance.
- ✓ Excellent mechanical properties, high tensile and tear strength, high abrasion resistance, good chemical resistance.
- ✓ Excellent thermal resistance over a wide temperature range. No product softening at temperatures even up to 80°C (max shock temperature 200°C) and remarkable resistance in the cold with film retaining its elasticity even down to -40 °C.
- \checkmark No thinning is required but pure xylene may be used.
- \checkmark The membrane breathes with no accumulated humidity under the coat.



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TECHNICAL DATA

	Packag	ging (kg)	Color			
1	6	15	25	White	Grey	Red
	Recommend	led Thickness	Upon Request			
	Main M	lembrane	Shelf Life			
	+/- 1.5	mm total	-			
	Mix Ratio	by volume				
			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.			
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CS 100 –UHA 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

Liquid		
Flash Point (°C) ASTM D93	Viscosity (BROOKFIELD) - cP ASTM D2196-86	Density (kg/lt) ASTM D1475
42 Rain Proof time, @77°F	2500-4500 Recoating Time (hours)	
(25 °C) & 55% RH	Keebaung Time (nours)	1.35-1.40
2-3 hours	6-48	
Membrane		
Service Ter	nperature	-40°C to 80°C
Max shock to	emperature	200°C
Curing Details	Foot traffic	6-12 hours
	Light traffic	3 days
	Full cure and chemical	7 days
	resistance	
*Note: Times and data mentio	ned are based on laboratory a	onditions Field results may yary and will be

*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.

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PROPERTIES @ 23°C

Adhesion to Concrete (N/mm2)	Water Vapor Transmission (gr/m2.hr)		
ASTM D4541	ASTM E96		
>2.2	0.7		
Hardness (Shore A)	Tensile Strength at Break (N/mm2)		
ASTM D2240	ASTM D412		
75	>7		
Percent Elongation (%)	Tensile set (after 300% elongation) (%)		
ASTM D412	ASTM D412		
>350	<2.5		
QUV Accelerated Weathering Test (4hr UV,			
@ 60 °C (UVB-Lamps) & 4hr COND @ 50	passed (2000 hours)		
°C) ASTM G53			

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. Fill surface irregularities with appropriate products.

Concrete substrate conditions: Hardness: $R_{28} = 15$ MPa, Humidity: W < 10%, Temperature: 5-35 °C, Relative humidity: < 85%.

Priming: Range of primers available for special conditions and substrates.

MIXING

Use a low speed (300 rpm) mixer. Add pure xylene at 5-10% for application by spraying.



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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: 1.8-2.2 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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- ✓ waterproofing of swimming pool surfaces in contact with chemically treated water.
- ✓ consult our technical department for selection of the required proper primer usage.

NOTE: If CS 100– UHA is going to be used in dark colours for exposed use, an additional protective topcoat of pigmented CS 100 -UEAL is obligatory. However, even if CS 100– UHA will be applied in light colours, the use of CS 100–UEAL is recommended to improve the membrane color protection and to enhance the system's solar reflectance over time.



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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.