



CP - PU Base Coats (F)

PU elastic Base Coat for car Park Areas

Pack Size
25Kg

TDS
Technical Data Sheet



Product Description

CP - PU Base Coats (F) is a solvent-free, hard-elastic, two-component polyurethane membrane designed for long-lasting waterproofing and protection. This liquid-applied membrane is cold-applied and cold-curing, forming a seamless, durable barrier when cured by the reaction of its two components.

Advantages

- Forms a seamless membrane without joints or potential leak points
- Resistant to cold and warm water as well as frost
- Maintains mechanical properties over a temperature range of -30°C to +90°C
- Remains elastic even at low temperatures
- Odor-free and solvent-free formulation
- Fully adheres to the surface
- The waterproofed surface can be walked on

Method of Application

Surface Preparation

- Careful surface preparation is essential for optimal finish and durability.
- Ensure the surface is clean, sound, and free of contaminants that could impair adhesion.
- The maximum moisture content should not exceed 5%. The substrate's compressive strength should be at least 25 MPa, with a cohesive bond strength of at least 1.5 MPa.
- Remove old coatings, dirt, organic substances, and dust using a grinding machine.
- Oil or grease contamination must be thoroughly cleaned. Any surface irregularities should be smoothed, and loose particles and dust should be removed completely.
- For crack repair, static cracks wider than 0.2 mm should be treated using injection resin. The crack should be opened in a V-shape using a diamond disc saw, and reinforcing metal blades should be placed inside after making perpendicular cuts to the crack. Fill the crack with injection resin until fully saturated. For vertical surfaces, use high-pressure injection of epoxy resin.

Warning: Do not wash the surface with water!

Priming

Prime surfaces such as concrete, cement screed, metal, and ceramic tiles using Carbolink's AT 107 primer (100 - 200 g/m²). Allow 6 - 12 hours to cure before applying CP - PU Base Coats (F).

Mixing

Stir Component B of CP - PU Base Coats (F) thoroughly before use. Then add Component A at the correct mixing ratio. Mix Components A and B using a low-speed mechanical stirrer for 3-5 minutes. Ensure thorough mixing, especially along the walls and bottom of the container, until a fully homogeneous mixture is achieved.

Application of Waterproofing Membrane

Pour the entire mixture of CP - PU Base Coats (F) A+B onto the primed surface and spread evenly using a roller or brush.

Reinforce detail areas such as wall-floor connections, 90° angles, chimneys, pipes, and waterspouts using Pro Membrane or Pro Joint Tape. Apply the reinforcement onto the still-wet CP - PU Base Coats (F) membrane, press to soak, and then saturate with another layer of CP - PU Base Coats (F).

After 12-18 hours (but no later than 48 hours), apply a second layer of CP - PU Base Coats (F) using a roller or brush. Repeat this process within the specified time frame if the required layer thickness has not been achieved.

If the waterproofing coat is to be covered with ceramic tiles, fully saturate the last layer with oven-dried silica sand (aggregate size 0.4-0.8 mm) while still wet. This saturation creates an adhesion bridge for the tile adhesive.

Attention: Ensure consumption within the product's pot life (approximately 30 minutes at +20°C). Do not leave the mixed CP - PU Base Coats (F) A+B coating in the container for long, as the exothermic reaction accelerates curing and shortens pot life. After mixing, immediately pour the mixture onto the surface or into smaller containers to minimize the exothermic reaction.

Recommendation: For best results, apply and cure the product at temperatures between +5°C and +30°C. Low temperatures retard curing, while high temperatures accelerate it.

Consumption

1.5 - 2.5 kg/m² applied in two or three layers, fully reinforced. Coverage is based on practical application by roller onto a smooth surface under optimal conditions. Factors such as surface porosity, temperature, humidity, application method, and desired finish can alter consumption.

Colors

CP - PU Base Coats (F) is available in off-white and grey. The applied coating may yellow and fade over time due to the sensitivity of aromatic polyurethane to UV rays, but this change does not affect its mechanical properties or waterproofing ability.

Packaging

CP - PU Base Coats (F) A+B is supplied in 13 kg packs. Store in dry, cool conditions for up to 12 months. Protect from moisture and direct sunlight. Storage temperature should be between 5°C and 30°C. Keep products in their original, unopened containers, with the manufacturer's name, product description, batch number, and application precautions clearly labeled.

Physical Properties

Property	Results	Test Method
Composition	Polyurethane Resin + Hardener	
Water Absorption	< 0.80 % after 72 hrs	
Resistance to Water Pressure	No Leak (1 m water column, 24 h)	DIN EN 1928
Adhesion to Concrete	> 2.0 N/mm ²	ASTM D 903
UV Accelerated Ageing	Passed - No significant changes	EOTA TR-010
Hydrolysis (5% KOH, 7 days cycle)	No significant elastomeric change	In-house Lab
VOC	Low	
Tack-Free Time	6-8 hours	
Light Pedestrian Traffic Time	24 hours	20°C, 50% RH
Final Curing Time (Ponding Test)	7 days	
Tensile Strength	> 1.2 MPa	
Mixing Ratio	10:2.5 by weight	

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25Kg



Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

Legal Disclaimer

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.