

Product Overview

Flexi Top 2K PU is a liquid-applied, solvent-free, hard-elastic, cold applied and cold curing, twocomponent polyurethane membrane used for long-lasting waterproofing and protection. It cures by reaction (cross-linking) of the two components.

Advantages

When applied forms seamless membrane without joints or leak possibilities. Resistant to cold water, warm water and frost. Maintains its mechanical properties over a temperature span of - 30°C to +90°C. Remains elastic even at low (frost) temperature. Odor-free. Solvent-free. Full surface adherence. The waterproofed surface can be walked on.

Uses:

UWaterproofing of water tanks and reservoirs. Odorless waterproofing of wet areas (under-tile) in bathrooms, swimming pools, kitchens, etc. Used for waterproofing of surfaces in direct contact with potable (drinking) water. Used for waterproofing of not well-ventilated, wet rooms and wet areas (bathrooms, kitchens, etc.) applied beneath tiles, when an odorless, solvent-free coating is required.

Method of Application:

Surface Preparation:

Careful surface preparation is essential for optimum finish and durability. The surface needs to be clean and sound, free of any contamination, which may harmfully affect the adhesion of the primer. Maximum moisture content should not exceed 5%. Substrate compressive strength should be at least 25 MPa (N/mm²), cohesive bond strength at least 1.5 MPa (N/mm²). Old coatings, dirt, organic substances, and dust need to be removed by a grinding machine. Oil or grease contamination must be cleaned substantially. Possible surface irregularities need to be smoothened. Any loose surface particles and grinding dust need to be thoroughly removed. Crack repair: Treat static cracks in the substrate wider than 0.2 mm using injection resin. The crack has to be opened v-shaped using a diamond disc saw. Then cut rectangular to the crack at a distance of 15 - 20 cm and place reinforcing metal blades inside. Pour injection resin into the crack until saturation. Cracks in vertical surfaces should be treated by high-pressure injection of epoxy resin. WARNING: Do not wash the surface with water!

Priming:

Prime surfaces like concrete, cement screed, metal, and ceramic tiles by using Carbolink's AT 107 primer (min. 100 - 200 g/m²). Allow 6 - 12 hours to cure.

Mixing:

Stir Flexi Top 2K PU Component B well before using. Then add Flexi Top 2K PU Component A at the correct mixing ratio. Flexi Top 2K PU Component A and Component B should be mixed by low-speed mechanical stirrer for about 3-5 minutes. ATTENTION: The mixing of the components has to be done very thoroughly, especially on the walls and bottom of the pail until the mixture becomes fully homogeneous.!

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Application of Waterproofing Membrane:

Pour the entire Flexi Top 2K PU A+B mixture onto the primed and prepared surface and spread out by roller or brush until the surface is covered. Reinforce always with Pro Membrane / Pro Joint Tape at detail areas, like wall-floor connections, 90° angles, chimneys, pipes, waterspouts (siphon), etc. Apply a correctly cut piece of Pro Membrane / Pro Joint Tape on the still wet Flexi Top 2K PU, press it to soak, and saturate again with another layer of Flexi Top 2K PU. After 12-18 hours, but not later than 48 hours, apply the second layer of Flexi Top 2K PU by using roller or brush. Repeat this process within the mentioned 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 will create an adhesion bridge to the tile adhesive that will follow. **ATTENTION**: Ensure consumption within the pot life of the product (approx. 30 minutes at +20°C). Do not leave the mixed Flexi Top 2K PU A+B coating in the pail for long, as the exothermic reaction accelerates curing and will shorten the pot-life. Directly after mixing, pour the mixture on the surface or in smaller pails to minimize the exothermic reaction. **RECOMMENDATION**: For best results, the temperature during application and cure should be between +5°C and +30°C. Low temperatures retard curing while high temperatures speed up curing.

Consumption:

1.5 - 2.5 kg/m² applied in two or three layers fully reinforced. This coverage is based on practical application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, temperature, humidity, application method, and finish required can alter consumption.

Colors:

Flexi Top 2K PU is supplied in off-white and grey. Due to the sensitivity of aromatic polyurethane to UV rays, the applied coating might yellow and fade on the surface. This change in appearance does not modify its mechanical properties or leak tightness.

Packaging:

Flexi Top 2K PU A+B is supplied in 13 kg packs. Pails should be stored in dry and cool rooms for up to 12 months. Protect the material against moisture and direct sunlight. Storage temperature:

5°C - 30°C. Products should remain in their original, unopened containers, bearing the manufacturer's name, product description, batch number, and application precaution labels.

Technical Parameters

Teeminear Farameters	
Polyurethane Resin + Hardener	
< 0.80 % after 72 hrs	
No Leak (1 m water column, 24 h) DIN EN 1928	
> 150% ASTM D 412	
> 2.0 N/mm² ASTM D 903	
: Passed - No significant changes EOTA TR- 010	
No significant elastomeric change In-house Lab	
Low	
6-8 hours	
24 hours Conditions: 20°C, 50% RH	
7 days	
> 1.2 MPa	
10:2.5 by weight	

Pack Size

12.5kg





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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.

