



## SOUPLETHANE 5 GLUE (COLLE)

Polyurea-urethane bi-component (2K), solvent-free resin ensuring the dual function:  
**LIQUID WATERPROOFING AND GLUE for tiling**

Technical evaluation for liquid waterproofing system : N° AT 12/ 15- 1704\_V1 / report n° TO02-024

### Application Fields

BUILDING - INDUSTRIES	SUBSTRATES
Sanitarries, bathrooms - floors and walls Kitchen floors and walls Roof terraces and balconies Facades Pools, fountains Pools: Beaches / Pools / Buffets Saunas, Spas, Hammam Anti acid briquetting: chemical industry	Concrete: direct application without preparation and without primer, without prior patching Wood Metal PS insulation, PU Plasterboard Coating (floor renovation) Old tiles

### Characteristics

<b>Chemical Nature</b>	2-Component Polyurea-urethane resin (aromatic)	<b>Mixing ratio</b>	Comp. A / Comp. B = 3 / 1 in volume
<b>Composition</b>	Component A - polyol : Colored opaque liquid Component B – isocyanate : Transparent amber liquid	<b>Density (at 20°C)</b>	Mixture A+B : 1.3 g / ml (DIN 53217 / EN ISO 2811)
<b>Solvent-free</b>	100 % solid content (ISO 1515)	<b>Fire resistance</b>	Bfl-S1
<b>Flash point Component A</b>	>200 °C	<b>Flash point Component B</b>	220 °C
<b>Colors</b>	gris-grey (prox. Ral 7040) – Others upon request		

### Advantages

#### Dual function : LIQUID WATERPROOFING AND GLUE for tiling

Excellent adhesion: 3 MPa (required performance : 0,4 MPa)	Solvent-free, Odor-free, VOC-free
Resistance to hydrolysis : 90°C without impacting adhesion	Fast start-up time – Easy application
Chemical resistance : pH from 1 to 13	Acoustic attenuation of chocs and impacts

#### comparison with conventional tile-concrete glue (CSTB test)

ADHESION	SOUPLETHANE 5 GLUE	GLUE MORTAR
dry	> 3MPa	2 MPa
After 21 days under immersion at 23°C	> 3MPa	1.3 MPa
After 5 days under immersion at 45°C	> 3MPa	0.54 MPa

### Properties

Concrete adhesion	<b>3 MPa</b> (concrete failure) (NF EN 1542)	Shrinkage	<b>0</b>
Adhesion after thermal aging at 70 °C	<b>3 MPa</b> (concrete failure) (NF EN 1542)	Chloride permeability	<b>&lt;10 coulombs</b> (ASTM C 1202)
Thermal shock resistance	<b>- 20 °C to + 120°C</b>	Water permeability	<b>No penetration</b> (DIN 1048)
Resistance to back pressure	<b>1 MPa</b>	Salt spray resistance	<b>2 000 hours</b> (ASTM B117 / D1654)
Chemical resistance <b>1&lt; pH&lt;13</b>			

Packaging	in kits
<b>2.5 kg</b>	<b>(1.9 kg component A + 0.6 kg component B)</b>

### Storage

From the date of manufacture and in original unopened packaging, under cover at more than 5 °C in a cool, ventilated place (frost free)  
Shelf life : 12 months

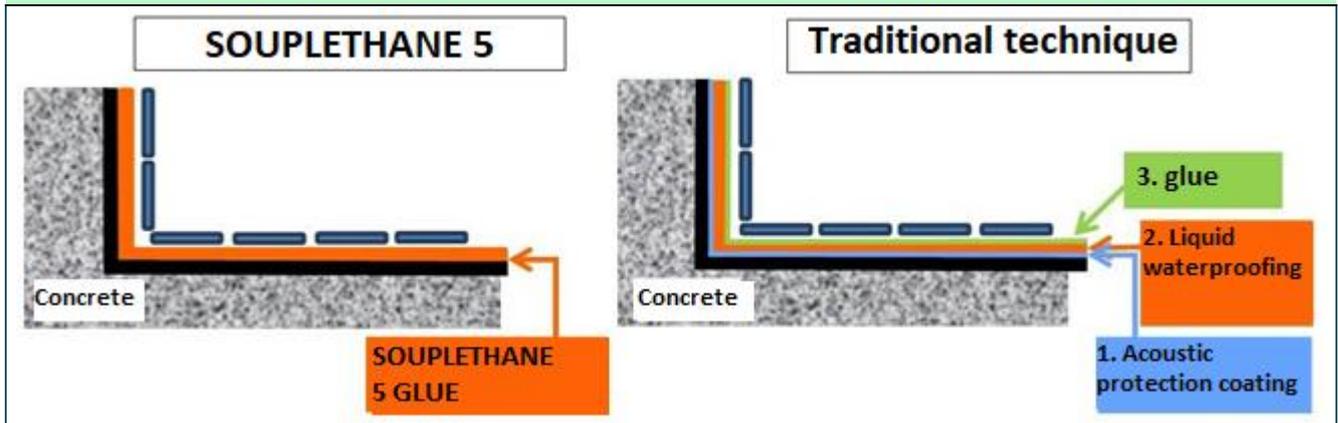
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## Implementation



<b>Preparation of the mixture</b>	<ul style="list-style-type: none"> <li>Thoroughly homogenize the polyol (A) before mixing</li> <li>Mix the mixture Comp A + Comp B with a mechanical stirrer for 40 seconds</li> <li>Then pour the product into a second container and resume mixing for 10 seconds.</li> <li>To minimize the air entrainment during mixing, it is advisable to perform this operation at low rotation speed (approx. 400 rpm), taking care to keep the agitator at the bottom of the bucket during its rotation.</li> </ul>			
<b>Application</b>	<p>Check the humidity of the substrate, the relative humidity, the ambient temperature of the products and the substrates, and the dew point beforehand. If the humidity of the substrate is &gt; 4%, the KEMIPOX or PU AQUEUX system can be used to form a barrier against ascending humidity.</p> <p><b>Spread the mixed resin on the substrate</b> with a coating knife or a spatula (cleaning tools is possible - roller application possible, but after 2 hours the rollers must be replaced).</p> <p><b>Spread the resin on the back of the tiles</b> and place the tiles on the substrate coated with a layer of resin. The tiles will be laid and spread with braces that can be removed the next day.</p> <p>The tiles can be adjusted for the layout 1 hour approx. following the application.</p> <p>Treatment of tile joints: with a white cement joint or other color.</p> <p>For the chemical industry, the joints will also be treated with SOUPLETHANE 5 Glue Resin.</p>			
<b>Substrate preparation du support</b>	Sans preparation		<b>Ambient temperature</b> +10°C min. / +30°C max.	
<b>Relative humidity (%RH)</b>	The relative humidity should be less than 80%.		<b>Dew point</b> : The substrate must be at + 3 ° C above the dew point to reduce the risk of condensation.	
<b>Number of layers</b>	One, to apply on the substrate Another one, to apply on the back of the tiles			
<b>Consumption</b>	1,5 kg/m <sup>2</sup> vertically and 2 kg/m <sup>2</sup> horizontally			
<b>Start-up time</b>	Foot traffic after 1 hour 30min			
<b>Pot life</b>	Temperature	+ 10°C	+ 20°C	+ 30°C
	Pot life	~ 25 minutes	~ 20 minutes	~12 minutes
The pot life decreases as the temperature and / or amount of prepared product increases.				

### Cleaning tools

Tools are cleaned with acetone or MEK immediately after use. In the cured state, the product can only be removed mechanically.

### Notes on the application / limits

- The substrates must not be under water pressure or condensation during the application and the polymerization of the SOUPLETHANE 5 GLUE
- Protect the SOUPLETHANE 5 GLUE from contact with moisture, condensation and water for 2 hours.
- An exposure of the coating under UV may alter its color or appearance, but without impairing its mechanical performance.

## Qualifications

CSTB : S.E.L. ATec : N° AT 12/ 15- 1704\_V1 / Test report n° TO02-024  
Class A+ : Regulatory Labeling of VOC Emissions and Compliance with the AgBB Protocol (2012)