

**QUICK ROLL 2K**

**COLD APPLIED 2K-POLYUREA**

**Two component easily cold-applied polyurea thick waterproofing coating.**

**USES**

- Waterproofing of concrete structures, roofs, terraces, etc.
- Waterproofing of water tanks.
- Waterproofing of secondary containments.

**FEATURES**

- Excellent crack bridging ability
- Highly elastic membrane
- Fast curing times
- Thick layer application (up to 2 kg/m<sup>2</sup> applied in a single layer)

**SURFACE PREPARATION**

All cementitious substrates must be structurally sound. Surfaces must be entirely free of oil, grease, paint, dust, curing agents, release agents or other surface contamination. Loose or unsound material should be removed. Sweep and vacuum to remove all dust and debris.

Steel substrates should be prepared to a class 2 ½ near white blast finish with a surface profile of 80 microns.

Mask all adjacent surfaces and protect the surrounding area from overspray. Do not apply unless the substrate temperature is 3 C or greater than dew point.

**MIXING**

Stir and homogenise separately both components using suitable mixing equipment.

Slowly pour component B into the component A and mix with a low-speed stirring before use. Wait for some minutes before application for de-airing.

Addition of Component B has an effect on the viscosity and solids content of Component A. Please take this into account when calculating the amount and thickness of product if a final coat of 1,5-2 mm minimum is to be obtained

**APPLICATION GUIDELINES**

Apply with roller or spreader. Use a spiked roller afterwards to prevent bubble formation. Airless spraying is possible, in this case, apply in three (at least) coats 0.5-0.7 kg/m<sup>2</sup> each to prevent defects due to solvent swelling.

**CURING TIME**

Curing time for mixtures 1 mm thick, approximate:

Conditions	Dry to touch
35°C, 30% hr	1.5 h
23°C, 40% hr	3 h
5°C, 60% hr	7 h

**RE-APPLICATION**

Usually, needed thickness can be obtained in one single coat. If necessary, a second coat can be applied immediately afterwards. In any case, do not wait longer more than 2 hours for a second coat. If spraying over a previously applied epoxy primer, ensure the primer is completely cures.

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### PHYSICAL PROPERTIES

### INFORMATION ABOUT THE USE OF THE PRODUCT

	COMPONENT A	COMPONENT B
Chemical description	Polyisocyanate prepolymer	Polyamine mixture
Physical state	Liquid	Liquid
Packaging	Metal container 25 kg	Metal container 1,5 kg
Non-volatile content (%)	Approx 85%	43%
Flash point	45°C	26°C
Colour	Red	Clear yellow
Density	1.3 g/cm <sup>3</sup> (20°C)	0.99 g/cm <sup>3</sup> (20°C)
Viscosity approximate Brookfield	10 20.000-30.000 20 6.000-10.000 30 1.000-1.500	5 mPa.s (20°C)
VOC voc class as per 2004/42/EC	184 g/L (15%)	572 g/L (57%)
A/B mixing ratio	A=100, B=6 by weight A=100, B=8 by volume	
Colour	Red. Other colours available on request.	
Pot life	5 23 35	180 60 30
Storage	Keep between 10° y 30°C (recommended)	
Use before	12 months after manufacture months (Note: 9 months if component A is white or black pigmented), provided it is kept in its sealed container	

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**PHYSICAL PROPERTIES**

**INFORMATION ON THE FINAL PRODUCT**

<b>Final state</b>	Solid elastomeric membrane																																				
<b>Colour</b>	Standard colour is Red. Other colours available under request. Note: Colour changes very fast under sunlight (yellowing), For example grey turns to green. This change does not impair the membrane mechanical properties																																				
<b>Hardness (shore)</b>	75 A (ISO 868)																																				
<b>Mechanical properties</b>	Elongation (EN-ISO 527-3): 600% Tensile strength(EN-ISO 527-3): 5.7 MPa Tear strength (ISO 34-1 method B): 34 N/mm																																				
<b>Water vapour permeability</b>	$\mu=2000$ , 14 g/m <sup>2</sup> day, (EN 1931)																																				
<b>Chemical resistance</b>	Permanent contact. (0=worst, 5=best) <table border="0"> <tr><td>Water</td><td>15d, 80°C</td><td>5</td></tr> <tr><td>Brine</td><td>5d, 80°C</td><td>5</td></tr> <tr><td>Diesel</td><td>16d, 80°C</td><td>5</td></tr> <tr><td>Xylene</td><td>7d, 80°C</td><td>1</td></tr> <tr><td>Ethyl acetate</td><td>7d, 80°C</td><td>0</td></tr> <tr><td>Isopropyl alcohol</td><td>7d, 80°C</td><td>0</td></tr> <tr><td>Sodium hydroxide</td><td>7d, 80°C</td><td>5 (40g/L)</td></tr> <tr><td>Hydrogen peroxide</td><td>7d, 25°C</td><td>4 (33%)</td></tr> <tr><td>Ammonia (3%)</td><td>7d, 80°C</td><td>5</td></tr> <tr><td>Sulphuric acid (10%)</td><td>7d, 80°C</td><td>4</td></tr> <tr><td>Hydrochloric acid conc.</td><td>7d, 80°C</td><td>0</td></tr> <tr><td>Bleach</td><td>7d, 80°C</td><td>4</td></tr> </table>	Water	15d, 80°C	5	Brine	5d, 80°C	5	Diesel	16d, 80°C	5	Xylene	7d, 80°C	1	Ethyl acetate	7d, 80°C	0	Isopropyl alcohol	7d, 80°C	0	Sodium hydroxide	7d, 80°C	5 (40g/L)	Hydrogen peroxide	7d, 25°C	4 (33%)	Ammonia (3%)	7d, 80°C	5	Sulphuric acid (10%)	7d, 80°C	4	Hydrochloric acid conc.	7d, 80°C	0	Bleach	7d, 80°C	4
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<b>Adhesion strength</b>	Concrete 2.0 / Ceramics 2.6 / PU foam 1.4																																				
<b>UV resistance</b>	Good resistance to UV-induced degradation. Aromatic polyureas undergo change of colour under sunlight. This change does not affect its mechanical properties. Additional UV protection can be achieved by application of an Impertrans or Colodur topcoat altogether with a Colour Paste.																																				
<b>Thermal resistance</b>	Degradation begins at 180°C																																				
<b>Fire resistance</b>	B roof= t1 (external fire exposure test)																																				

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### SUPPORT REQUIREMENTS

In order to achieve a good penetration and bonding, support must be:

1. Flat and levelled
2. Compact and cohesive (pull off test must show a minimum resistance of 1,4 N/mm<sup>2</sup>).
3. Even and regular surface
4. Free from cracks and fissures. If any, they must be previously repaired.
5. Clean and dry, free of dust, loose particles, oils, organic residues or laitance

Support temperature must be between 10°C and 40°C. At higher temperatures, additional measures to be advised by the manufacturer must be taken. Support moisture must be less than 4

### AMBIENT CONDITIONS

Air temperature should be between 10°C and 40°C. Relative air humidity should be less than 85%

### IMPORTANT NOTE

All test results and timings provided are based on tests carried out in laboratory conditions. Substrate and atmospheric temperature, humidity, condition and application thickness will all influence these results and therefore they must be used as a guide only.

**QuickRoll 2K** is UV stable, therefore UV light will not affect its functional characteristics. However, **QuickRoll 2K** is not colour stable.

### STORAGE/SHELF LIFE

When stored in dry conditions out of direct sunlight in original unopened packaging, this product has a shelf life of approximately 12 months from the date of manufacture. Avoid storing product in temperatures above 35°C as this may reduce the products shelf life.

Drums, including empty drums should always be kept tightly sealed. During storage and processing, avoid any contamination with other liquids and moist air which may cause solids to form leading to blockages in filters, pumps and/or pipelines.

### CLEANING

Prior to curing, tools may be cleaned with cleaning solvents. Once hard, by mechanical means only.

### TECHNICAL SERVICES

Detailed technical assistance and further information regarding this system and its relevant application specifications are available from VIP Technical Services.

### HEALTH AND SAFETY

Respiratory protection is mandatory for all sprayers and workers in the immediate vicinity of spray operations. A copy of the Model Respiratory Protection Program, developed by API is available at [www.polyurethane.org](http://www.polyurethane.org) and from the supplier.

### DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, at the time of printing. However the accuracy, completeness and repeatability of said tests results are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and tests, to determine the suitability of the product / system for his own particular project and application. User assumes all risk and liability resulting from his use of this product / system. We do not suggest or guarantee that any hazards listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or incorrect use of the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and standard application procedures. Test performance results were obtained in a controlled environment and the manufacturer makes no claim that these tests or any other tests, accurately represent all environments.

### ISSUE DATE: NOVEMBER 2019

This technical specification supersedes all previous data sheets.