



# QUICSEAL 166

PU-PTB

## Description

QUICSEAL 166 is a liquid-applied, solvent-free, hard-elastic, cold applied and cold curing, two component polyurethane membrane used for long-lasting waterproofing and protection. Cures by reaction (cross linking) of the two components.

## Uses

- Waterproofing of Drinking Water Supply Channels and Pipes.
- Waterproofing of Drinking Water Storage Tanks and Reservoirs.
- Odorless waterproofing of Wet Areas (under-line) in Bathrooms, Swimming Pools, Kitchen, 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 under the tiles, when a odourless, solvent-free coating is required.

## Features & Benefits

- Certified for safe use in potable (drinking) water reservoirs.
- When applied forms seamless membrane without joints or leak possibilities.
- Resistant to water.
- Maintains its mechanical properties over a temperature span of  $-40^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$ .
- Remains elastic even at low (frost) temperature.
- Full surface adherence.
- Foot trafficable
- Economical
- Very good elasticity
- Excellent chemical resistance
- Highly hydrophobic

## Application

Careful surface preparation is essential for optimum finish and durability.

The surface needs to be clean, dry and sound, free of any contamination, which may affect the adhesion of the membrane. Maximum moisture content should not exceed 5%. New concrete structures need to dry for at least 28 days. Old coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothed. Any loose surfaces pieces and grinding dust need to be thoroughly removed.

## Priming

Prime surfaces, like concrete, cement screed, metal, and ceramic tiles with QUICSEAL 135 (min. 250-300 gr/m<sup>2</sup>). Allow 8-12 hours (not later than 24 hours) to cure. While the primer is still a bit tacky, apply the coating.

## Mixing

Stir QUICSEAL 166 Component A well before using. Then add the QUICSEAL 166 Component B at the stipulated mixing ratio. QUICSEAL 166 Component A and Component B should be mixed by low speed mechanical stirrer, for about 3-5 min.

Care must be taken to ensure that the components are thoroughly mixed, paying attention to the sides and bottom of the tin until the mixture becomes fully homogeneous.

## Waterproofing membrane

Pour the entire QUICSEAL 166 A+B mixture, onto the primed and pressed surface and lay it out by roller or brush, until all surface is covered.

Please ensure consumption within the pot life of the product (~30min). Please do not leave the mixed QUICSEAL A+B coating in the pail for long, because the exothermic reaction accelerates the 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.

Reinforce with QUICSEAL Fabric at problem areas, like wall-floor connections, pipe-outlets, waterspouts (siphon), etc. For such installation, apply on the still wet QUICSEAL 166 a correct cut piece of QUICSEAL Fabric. For detailed application instructions with the QUICSEAL Fabric, contact our technical department.

After 12 hours – but not later than 36 hours –apply another layer of the QUICSEAL 166 to achieve the required thickness and leave to cure overnight. For critical areas, we would strongly recommend a 3 third layer.

### Consumption

0.70 – 0.85 kg/m<sup>2</sup> in 1 coat

Wet film thickness : 0.5 – 0.6mm

Total dry film thickness in 2 coats shall be 1.0 – 1.2mm

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 can alter consumption.

### Packaging

7kg sets

### Shelf Life

QUICSEAL 166 can be kept for minimum 12 months in the original unopened pails at a temperature of 5°C - 25°C under shade and in cool & dry environment. Protect the material against moisture and direct sunlight.

### Technical Specifications

| PROPERTY                      | RESULTS  | TEST METHOD                 |
|-------------------------------|--|-----------------------------|
| Composition                   | Polyurethane Resin + Hardener  |                             |
| Mixing Ratio                  | A+B = 6:1 by weight  |                             |
| Resistance to Water Pressure  | No Leak (1m water column, 24h)   | DIN EN 1928                 |
| Elongation at break           | >100%  | ASTM D 412                  |
| Adhesion to concrete          | >2.0 N/mm <sup>2</sup>   | ASTM D 903                  |
| Hardness (Shore A Scale)      | 70 ± 5   | ASTM D 2240                 |
| Solids Content                | 100%   | CALCULATED                  |
| Application Temperature       | 5°C to 35°C  | Conditions: 20°C,<br>50% RH |
| Pot-Life                      | 30 minutes   |                             |
| Tack Free Time                | 6 hours  |                             |
| Light Pedestrian Traffic Time | 12 hours   |                             |
| Final Curing Time             | 7 days   |                             |
| Chemical Properties           | Good resistance against acidic and basic solutions (10%), detergents, seawater, oils and lubricants. |                             |

### Precautions

QUICSEAL 166 contains isocyanates. See information supplied by manufacturer. Please study the Safety Data Sheet.

### Important Notes

The information set forth herein is furnished in good faith and is based on technical data that QUICSEAL considers to be reliable. This information is intended for use by persons having technical skill and at their own discretion and risk. Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of QUICSEAL products as of the date of publication of this document. QUICSEAL makes no other warranties and assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To ensure that you are using the latest, most complete information, contact QUICSEAL.

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