QUICSEAL 166

PU-PTB

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°C to +100°C.

Remains elastic even at low (frost) temperature

Full surface adherence

Foot trafficable

Economical

Very good elasticity

Excellent chemical resistance

Highly hydrophobic

MANAGEMENT SYSTEM CERTIFICATION
DNV
ISO 9001 · ISO 14001

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QUICSEAL 166

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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.

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 smoothened. 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^2. 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^2 in 1 coat
Wet film thicknees : 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.

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TECHNICAL SPECIFICATIONS

PROPERTY/ TEST METHOD	RESULTS
Composition	Polyurethane Resin + Hardener
Mixing Ratio	A+B = 6:1 by weight
Resistance to Water Pressure DIN EN 1928	No Leak (1m water column, 24h)
Elongation at break ASTM D 412	> 100%
Adhesion to concrete ASTM D 903	> 2.0 N/mm²
Hardness (Shore A Scale) ASTM D 2240	70 ± 5
Solids Content CALCULATED	100%
Application Temperature Conditions: 20°C, 50% RH	5°C to 35°C
Pot-Life Conditions: 20°C, 50% RH	30 minutes
Tack Free Time Conditions: 20°C, 50% RH	6 hours
Light Pedestrian Traffic Time Conditions: 20°C, 50% RH	12 hours
Final Curing Time Conditions: 20°C, 50% RH	7 days
Chemical Properties	Good resistance against acidic and basic solutions (10%), detergents, seawater, oils and lubricants.

PRECAUTIONS

QUICSEAL 166 contains isocynates. 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 used 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 ARDEX-QUICSEAL

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