

TECHNICAL DATA SHEET

AQUA ZERO™ PurCoat 100PU

1K Polyurethane Liquid Membrane



DESCRIPTION

Aqua Zero™ PurCoat 100PU is a 1 part, solvent based, UV resistant, easy to apply polyurethane liquid membrane which is cured by the moisture on the surface and air. After curing it forms an elastic waterproofing membrane which has crack bridging properties. It maintains its performance even at low temperatures. It is suitable for light foot traffic and is resistant to weather conditions. It is suitable for indoor and outdoor applications. It has excellent adhesion to various different surfaces. For direct UV exposure and long term colour stability it should be covered with **Aqua Zero™ Paint 300** Aliphatic topcoat.



TECHNICAL DATA

| | METHOD | DATA |
|------------------------------------|------------|--------------|
| Chemical Structure | | Polyurethane |
| Solid Content (%) | ASTM D2697 | 84% |
| Tack Free Time (hr) | | 3 hr |
| Rain Stability Time (hr) | | 7 hr |
| Light Pedestrian Traffic Time (hr) | | 24 hr |
| Full Curing Time (day) | | 7 day |
| Density (gr/cm3) | ASTM D792 | 1.35 |
| Tensile Strength (Psi) | ASTM D638 | >435 |
| Elongation at Break (%) | ASTM D638 | >450% |
| Hardness (Shore A) | ASTM D2240 | 60 |
| Service Temperature | | -4 to 176°F |

KEY FEATURES

- ✓ 1 Component, UV resistant, indoor and outdoor membrane
- ✓ Easy to apply (brush, roller, airless gun)
- ✓ Crack bridging up to 2 mm
- ✓ Suitable to light foot traffic
- ✓ Excellent resistance to weather conditions
- ✓ Vapor permeable

APPLICATIONS

- ✓ General waterproofing applications (roofing, balconies and terraces) with light foot traffic
- ✓ Bathrooms, kitchens and various wet areas
- ✓ Basic and curtain concrete waterproofing applications
- ✓ Green Roofs, landscaping and potted waterproofing
- ✓ Different types of renovation projects

PRODUCT INFORMATION

| | |
|-------------------------|---------------------|
| Consumption (pound/ft2) | 0.30-0.40 (1 layer) |
| Shelf Life | 9 Months |
| Packaging (pound/set) | 44 lbs (112 Gal.) |
| Colour | White and Gray |

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SURFACE PREPARATION

Surface preparation must be done properly to achieve maximum efficiency of the waterproofing coating system. Surfaces must be clean, weak parts should be removed and surface defects such as voids must be fully exposed. Concrete and other cementitious substrates must have a minimum compressive strength of 25 MPa minimum pull off strength of 1.5 MPa. Any laitance present on the surface must be removed mechanically. Shot blasting is the preferred method. Release oil and other contaminants which may impair adhesion must be removed prior to the application of the primer. All kinds of cracks, gaps and segregations on the surface should be repaired with suitable epoxy or cement based repair mortars. For new constructions, concrete should be allowed to dry for at least 28 days. Maximum air humidity should be 80% and appropriate primer should be applied over 4% surface moisture. (Not recommended to apply early in the morning)

PRIMING

Application surfaces has to be primed in order to achieve an even surface and good adhesion. Lightly spreading out with quartz sand 0.3 mm – 0.7 mm is recommended in order to get higher adhesion values.

Aqua Zero™ Prime 300 moisture tolerant polyurethane primer can be applied with a consumption of 0.06 – 0.1 pound/ft² on porous or non-porous surfaces

APPLICATION

Aqua Zero™ PurCoat 100PU should be applied after make sure that the primed surface is sufficiently dry (at least 2-3 hours after priming application). The primed surface should not be too wet or completely dry.

Before starting the application **Aqua Zero™ PurCoat 100PU** should be mixed with an electric mixer for 3-4 minutes with a low speed (300-400 rpm) to obtain a homogenous mixture. Do not mix at high speeds for a long time to prevent air bubbles. The mixed product will be applied to the substrate with a brush, roller or airless spraying machines. Surface cracks, cold joints, vertical and horizontal joints should be supported with polyester felt after the first layer application. It is recommended to cover the entire surface with polyester felt after first layer application in terrace and similar large area applications. Application thickness for single layer should be 0.60 mm maximum. At least 2 layers should be applied. Waiting time between layers varies between 12-36 hours depending on temperature and humidity. It is not recommended to use the product in pools or ponds that will be permanently submerged. Finished product should be protected against rain and mechanical stress until it is fully cured. Clean all tools and equipment with thinner after use. Cured product can be cleaner by mechanical methods.

SHELF LIFE & STORAGE CONDITIONS

Aqua Zero™ PurCoat 100PU should be stored between 41 to 86°F in dry conditions and places where there is no direct sunlight. Shelf life of the unopened original packaging is 9 months from manufacturing date.

SAFETY

Aqua Zero™ PurCoat 100PU contains isocyanate. Avoid breathing vapours and contact with skin and eyes. Take precautions during application and use appropriate PPE including working clothes, gloves, mask, eye & face protection. Adequate ventilation of the working area is recommended. Keep products from sources of ignition. Refer to SDS sheet prior to use.

DISCLAIMER

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use, if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product. Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions. The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.