StenCoat® PUM 300

Polyurethane Based Single Component Waterproofing Membrane

Highlights

- Polyurethane based, elastomeric waterproofing membrane
- It forms a seamless, breathing, long-lasting water impermeable membrane
- It is highly elastic and has crack bridging ability
- Ready-to-use
- It is resistant to mold growth
- Catalogue colors are available.
- Its installation is not labor intensive

1. Product Profile

StenCoat® PUM 300 is a single component, polyurethane based, highly elastic, self-levelling, easy-to-use, decorative, waterproofing membrane. It is used at terrace, roof and wall isolations. It is a liquid material which forms a breathing, seamless, elastic and water impermeable membrane. It is a very elastic membrane with perfect crack bridging ability.

It is mechanically resistant to outside conditions. StenCoat® PUM 300 complies with waterproofing membranes with separate wearing course standard ASTM C 836. Classified as type PI-C under EN1504-2. Catalogue colors are available.

StenCoat® PUM 300 is available in 20 kg packages.

2. Uses

StenCoat® PUM 300 is used at places such as terraces, balconies and garrets, bathrooms, industrial facilities and prefabricated buildings. It is suitable to be applied at horizontal, concrete, asphalt, metal and wooden surfaces.

3. Surface Preparation

Application surfaces must be clean and dry. Loose materials must be removed and parts in disrepair must be repaired with epoxy based StenCare® 2EP 310.

For primer on clean concrete surfaces StenAST® 2EP-F or StenAST® 2EP can be used. 0.3 -0.7kg primer is used depending on the surface roughness. Roughness is ensured by applying 100-200 gr/m^2 StenSilica onto primer.

On old isolation coatings the existing coating is very important in determining the application process. For the right primer and application methods please refer to Stenkim®.

4. Application

Keeping the materials at 20 – 30 °C for one day before the application date facilitates the application. During the application, surface and ambient temperature must be above 10 °C and must not drop below it for 24 hours following the application. The application must be carried out by skilled workers under supervision of experts and the applicators must use all kinds of protective equipment required for the worksite and the task such as goggles, mask and gloves.

StenCoat® PUM 300 is ready to use. If thinning is required, StenSolver PU can be used for this purpose only. Optimal performance and proper results are attained by double or triple coat application. An additional coat can be applied at places subject to harsh conditions. Average consumption should not exceed 1kg/m^2 per coat.

If the application environment is humid, material should be applied in multiple thinner coats so that the material is less affected from moisture.

StenCoat® PUM 300 can be reinforced by using glass or polyester sheets. Such applications are especially recommended on uneven or newly installed concrete surfaces, wall-floor intersections and at dissimilar surface meeting places such as pipe passing, around fixtures etc. It is important to completely saturate the sheet with the membrane material in such applications. Chemically

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incompatible and water retentive sheet materials may damage the membranes. Stenkim® offers free consultancy and analysis service for selection of the correct sheet materials. When consumption rate of the material calculated, absorbance of the sheets must be accounted for.

StenCoat® PUM 300 can be applied by roller or trowel. It is applied 0.45 – 0.90 kg/m^2 per coat according to the desired application thickness. However, these amounts may differ depending on the surface roughness.

StenCoat® PUM 300 is an aromatic product and there will be a change in color when exposed to UV radiation continuously. This change only affects the appearance of the product, it will have no effect on products performance.

5. Cleaning

Equipment used can be cleaned at the end of the job with StenSolver PU.

6. Safety

Applicators and supervisors must read Material Safety Data Sheet (MSDS) carefully and observe the considerations written therein. Emptied packages must be handled in compliance with relevant regulations and laws.

7. Storage

Storage temperature must be between 5ºC and 30ºC. The packages must not be exposed to direct sunlight. Stored unopened in these conditions, the shelf life is 6 months. It is inflammable. It must be stored away from open fire and sources of ignition.

8. Company Liability

The information contained in this document is based on site experience of and laboratory tests done by Stenkim® and meant to give general information. It is the purchaser's responsibility to ensure applicability of products to their use. All Stenkim® products are available in specified quality and conditions. The company accepts no liability whatsoever unless the transportation, storage, application conditions and customer use are overseen by Stenkim®.

Stenkim® reserves the right to update all information contained in this document without notice.

9. Technical Data

Property	Method	Result
Base Polymer		Single component polyurethane
VOC content %		15
Application thickness per layer		450 - 750 microns
Color		Color catalogue
Density		1.40±0.01 g/cm^3
Hardness	ASTM D 2240	A70±5
Ultimate elongation	ASTM D 412 Die B	%800
Impact resistance	ASTM D 2794, 1 meter, 2 kg	>202 kg.cm (No damage)
Extensibility after heat aging	ASTM C 1522	Pass
Crack bridging ability	EN 1062-7	No failure A5 (-10C)
Water vapor permeability	EN ISO 7783-1	95 m Class 3
Carbon dioxide permeability	EN 1062-6	85m
Adhesion Strength by pull-off test	EN 1542	>1,5 MPa
Capillary Water Absorption and Water Permeability	EN 1062-3	<0.005 kg/m^2 h^{12}
Tack-Free time		60-120 minutes
Time until next coat		24 hours
Time until full cure		3 days

Stenkim® reserves the right to make changes in the values in this table at any time.

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