

StenCoat[®] 2PUM220/221

1. Product Profile

StenCoat[®] 2PUM220/221 is a two component, polyurethane based, solvent free, highly elastic, decorative, liquid waterproofing membrane. **StenCoat[®] 2PUM220** is used for horizontal surfaces, **StenCoat[®] 2PUM211** is used for vertical surfaces. 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 can tolerate minor building movements and newly formed cracks.

It is mechanically resistant to outside conditions. **StenCoat[®] 2PUM220/221** complies with water waterproofing membranes with separate wearing course standard ASTM C 836. Catalog colors are available.

StenCoat[®] 2PUM220/221 is available in **20kg** containers.

2. Uses

StenCoat[®] 2PUM220/221 is used at places such as terraces, balconies and garrets, foundation and partition walls, municipal infrastructures, industrial facilities, motorway culverts and tunnels. It is suitable to be applied at horizontal and vertical, concrete, asphalt, metal and wooden surfaces.

3. Surface Preparation

On Concrete, Wooden and Metal Surfaces:
Application surfaces must be clean and dry. Loose materials must be removed and parts in disrepair must be repaired. The surfaces with moisture must be primed with **StenAst[®] S**. First 1 mm or wider cracks must be filled with the material; surface application must be carried out after the filling process.

On Old Isolation Coatings:

The existing coating is very important in

Polyurethane Based, Two Component Liquid Waterproofing Membrane

Highlights

StenCoat[®] 2PUM220/221

- It is polyurethane based, elastomeric water waterproofing membrane.
- It is solvent free.
- It forms a seamless, breathing, long-lasting water impermeable membrane.
- It is highly elastic and has crack bridging ability.
- It is applied very easily.
- Catalog colors are available.
- It is a very economical solution for water isolation; requires less labor to install and forms a life long protection.

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 the dew point and must not drop below it for 6 hours following the application. The application must be carried out by

StenCoat® 2PUM220/221

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® 2PUM220/221 is prepared for the application by mixing two components. First, component A is homogenized in its container for 1 - 2 minutes at 200 - 500 rev/min speed. Component B is poured into the container of component A and they are mixed for 2-3 minutes more without letting air to the mixture. Mixed material must be used within the pot life and thickened materials must not be thinned and used.

StenCoat® 2PUM220/221 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 passings, around fixtures etc.

It is important to completely saturate the sheet with the membrane material in such applications. Chemically 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 **StenCoat® 2PUM220/221** is calculated, absorbance of the sheets must be accounted for.

StenCoat® 2PUM220/221 is applied by means of airless spray or manually by brush or roller. Faster curing and thicker single coat application is possible in applications with two component airless type application equipment. With this type of equipment, it is not required to mix two components beforehand. Application can be carried out in two or more coats. Application thickness has no affect on the curing of the material.

5. Cleaning

Equipment used can be cleaned at the end

of the job with **StenSolver CL**.

6. Safety

StenCoat® 2PUM220/221 does not contain solvents, asbestos and heavy metals. 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 5°C and 30°C. The packages must not be exposed to direct sunlight. Stored unopened in these conditions, the shelf life is 12 months. Packages to be used must be kept at 20 - 30°C for a couple of days before the application. It is inflammable. It must be stored away from open fire and sources of ignition.

8. Maintenance

The cleaning is carried out by normal methods like wiping and sweeping with water and detergent. Pressurized water can be used. Peeled and worn parts of the coating are cut off and patched.

9. 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.

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Technical Data

Property	Method	Result
Base Polymer		2 Component Polyurethane
Solids Content %		100
Application Thickness, at each Coat	StenCoat [®] 2PUM220	300-5000 microns
	StenCoat [®] 2PUM221	200-4500 microns
Color		Color Catalog
Density		1.50±0.05 g/cm ³
Durometer Hardness	ASTM D 2240	A25-30
Elongation at Break	ASTM D 412 Die B	100%
Impact Resistance	ASTM D 2794, 1 meter, 2 kg	>200 kg.cm (No Damage)
Abrasion Resistance	ASTM C 794, 7 days water	Pass (700 N/m)
Crack Bridging at Low Temperatures	ASTM C 1305	Pass
Extensibility after Heat Aging	ASTM C 1522	Pass
Modulus of Elasticity (100% Elongation)	ASTM D 2370	0.56 MPa
Pot life of the Mixture @20 °C		30 minutes
Tack Free Time @20 °C		6 hours
Cure Time for Light Trafficability @20 °C		24 hours
Cure Time for Chemical Resistance @20 °C		4 days

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