StenCoat® PU AIRBLOCK

1. Product Profile

StenCoat® PU AIRBLOCK is a single component, polyurethane based, highly elastic, thixotropic, easy-to-use, liquid membrane. It is used as air, water and vapor barrier for all substrates. It is a liquid material which forms a breathing, seamless, mold resistant, elastic air and vapor barrier and water impermeable membrane. It forms a highly elastic membrane with crack bridging ability

It is mechanically resistant to outdoor conditions. StenCoat® PU AIRBLOCK complies ASTM C 836 and permeability requirements of ASTM E2178. Catalogue colors are available.

StenCoat® PU AIRBLOCK is available in 20 kg packages.

2. Uses

StenCoat® PU AIRBLOCK is used at walls and terraces, which requires an air and vapor barrier with waterproofing properties It is suitable to be applied at horizontal concrete, gypsum boards, natural stones, metal and wooden surfaces.

3. Surface Preparation

Application surfaces must be sound, dry, clean and free of oil, grease, dirt and excess mortar. Loose materials must be removed, all voids and spalled areas should be repairer with epoxy based StenCare® 2EP 311.

All joints should be sealed with StenSeal® 2PS 111 or StenSeal® PU 102 prior to application.

For damp surfaces StenAST® 2EP-MT should be applied as a moisture barrier primer on clean concrete surfaces. 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, masks and gloves.

Polyurethane Based Single Component Thixotropic Air, Water and Vapor Barrier

Highlights

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

StenCoat® PU AIRBLOCK is ready to use. If thinning is required, StenSolver PU can be used for this purpose. 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. Application thickness should not exceed 0,75 mm per coat.

StenCoat® PU AIRBLOCK can be applied by roller or heavy-duty airless spray in a dual or triple-coat application. It is applied 0.75 – 1.00 kg/m^2 per coat according to the desired application thickness. However, these amounts may differ depending on the surface roughness. It is advised to form a 2.50 mm thickness for optimum performance.

StenCoat® PU AIRBLOCK 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.

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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		280 g/L
Application thickness per layer		400-800 microns
Color		Color catalogue
Density		1.5±0.1 g/cm^3
Air permeability	ASTM E2178	<0.0002 L/s.m^2 @ 1.6 mm dry film
Water vapor permeability	ASTM E 96 – desiccant method	3.6 ng / Pa.s.m^2 @ 1.6 mm dry film
Hardness	ASTM D 2240	A70±5
Ultimate elongation	ASTM D 412 Die B	%800
Impact resistance	ASTM D 2794, 1 meter, 2 kg	>200 kg.cm (no damage)
Peel strength	ASTM C 794, 7 days in water	Pass
Crack bridging ability at low temperature	ASTM C 1305	Pass
Extensibility after heat aging	ASTM C 1522	Pass
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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