StenCoat® 2PUR 6000

Polyurea-Based Heavy-Duty Coating

Highlights

- Polyurea based
- Solvent-free
- Can be applied easily in a very short time with a spray machine
- Cures very quickly after application and becomes ready for use
- Can be applied even at very low temperatures and high ambient humidity
- Very high mechanical and chemical resistance; long-lasting
- Very high thermal resistance
- Does not lose its elasticity even at very low temperatures; does not become brittle
- Resistant to UV radiation

1. Product Description

StenCoat® 2PUR 6000 is a heavy-duty type, flexible, solvent-free, very fast curing, seamless protective coating and floor coating system. It has high slip resistance and excellent abrasion, tear and tensile strength, and is resistant to chemicals, physical stresses, and minor and medium-intensity floor movements. **StenCoat® 2PUR 6000** consists of solvent-free polyurea resin, pigments and solid fillers.

It is a long-lasting and robust coating system with a slightly grained texture and a seamless structure, resistant to abrasion, impacts, chemicals and penetration. It retains its outstanding elasticity even under cold conditions. It is resistant to organic and inorganic acids and alkalis, oils, fuels, antifreeze, and many chemicals.

It can be sprayed on horizontal and vertical surfaces. It is resistant to UV radiation; it does not weaken or lose its elasticity.

2. Uses

StenCoat® 2PUR 6000 is used in a wide range of areas, including chemical process areas, wet and dry areas in food-preparation facilities, clean rooms, printing houses, beverage facilities, water-filling facilities, cafeterias, workshops, factories, hospitals and the floors of social buildings. It is suitable for places that must be opened to traffic quickly or have harsh application conditions. It is suitable for concrete, terrazzo, tiles, steel and other metal surfaces, and water-resistant plywood surfaces in these areas.

StenCoat® 2PUR 6000 can also be used as a coating in places such as water tanks, steel constructions and roads that need to be put into service in a short time. In such places, it creates a protective, impermeable and long-lasting membrane.

3. Surface Preparation

Application surface must be even. If the surface has depressions, bumps, damage, pop-outs, etc. deeper than half the specified coating thickness, these must first be corrected using **StenCoat® GRANO 3EP** before application of the floor system. Such application is not required on even surfaces.

StenAst® 2EP should be applied as primer and quartz sand should be broadcasted on top to provide a proper adhesion for coating layer. Proper and correct surface preparation is of great importance. For this reason, if detailed information about the surface condition is provided, the most suitable surface preparation procedures will be recommended by **Stenkim®**.

4. Application

It is recommended to condition the materials at 20-30 °C for one day before application. During the application, ambient and substrate temperature must be above -5 °C. **StenCoat® 2PUR 6000** is applied by two-component spray machine.

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The machine used for this purpose must be able to control the heat of individual components, spray the material at least 140 bar pressure and with a volumetric mixing rate of 1:1. Both components are transferred to the containers and the application temperature is heated to at least 70 °C. Application must not start until both components heat up to this temperature.

Once the correct temperature is reached, application is done by spraying on the substrate. The application speed and the distance from the surface must be maintained as constant as possible. If the component pressures or temperatures become unbalanced, application must be stopped and the imbalance corrected.

Product will cure in a few minutes after two components are mixed. After application, **StenCoat® 2PU TOP UV** can be used as a protective top coat if additional resistance is required.

5. Cleaning

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

6. Safety

As it involves the use of high-pressure spray equipment, protective equipment in accordance with the Safety Data Sheet (SDS) must be used. Applicators and supervisors must read the Material Safety Data Sheet (SDS) carefully and follow the instructions provided. Emptied packages must be handled in compliance with relevant regulations and laws.

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.

7. Storage

Storage temperature must be between 5 and 30 °C. Packages must not be exposed to direct sunlight. Under these conditions, the material will retain its properties in unopened containers for 12 months from the production date.

Low temperatures may cause crystallization of the product; in this case, the product can be used after heating and homogenizing at +20 °C. The product must be stirred thoroughly before use after prolonged storage.

8. Disclaimer

This document is provided for general information and reflects **Stenkim®**'s laboratory data and field experience at the time of publication. **Stenkim®** reserves the right to revise this information at any time without notice.

Stenkim® warrants that its products conform to the stated specifications on delivery. The buyer is responsible for determining the product's suitability for the intended application and for all conditions of transport, storage, handling, and use. **Stenkim®** accepts no liability for results obtained under conditions outside its control. **Stenkim®**'s liability under this warranty is limited to replacement of non-conforming product and excludes any consequential or indirect damages.

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9. Technical Data

Property	Method	Result
Base Polymer		Two-Component Polyurea
Solid Content		100
Color		Catalog
Density		1.10 ± 0.05 g/cm^3
Application Thickness (per coat)		min. 1 mm
Hardness	EN ISO 48-4	D50-60
Tensile Strength	ASTM D 412 Die B	20 N/mm^2
Elongation at Break	ASTM D 412 Die B	> 350%
Impact Resistance	ASTM D 2794, 1 meter, 2 kg	> 200 kg·cm (No Damage)
Pot Life @20 °C		2-3 seconds
Ready for Light Foot Traffic @20 °C		1-2 minutes
Shelf Life		1 year
Packaging		200 L drums

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

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