

1. Product Description

StenCoat® 2PUR 6000 is a heavy-duty, flexible, solvent-free, very fast curing, seamless protective coating and floor coating system. It has high slip resistance and good abrasion, tear and tensile resistance, and is resistant to chemicals, physical stresses, and minor and moderate substrate movement. **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 finish, 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, but as it is an aromatic product its color will change under continuous UV exposure. This change only affects the appearance of the product; it has no effect on the product's performance. In applications where color retention is required, **StenCoat® 2PU TOP UV** should be applied over it as a topcoat.

2. Uses

StenCoat® 2PUR 6000 has a wide range of uses: it provides waterproofing on roofs, terraces, multi-storey car parks and building exterior surfaces, and serves as a high-performance coating on the floors of chemical process areas, wet and dry areas in food-preparation facilities, clean rooms, print shops, beverage facilities, water bottling plants, cafeterias, workshops, factories, hospitals and communal buildings. It is particularly 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. Application

3.1. Surface Preparation

The application surface must be even. If the surface has defects such as depressions, protrusions, damage or peeling greater 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.

Before application, **StenAst® 2EP** is applied to the surface as a primer and quartz sand is broadcast over it to substantially increase adhesion strength. Proper surface preparation is of great importance. For this purpose, if detailed information about the condition of the surface is provided, **Stenkim®** will recommend the most suitable surface preparation methods.

Polyurea-Based Heavy-Duty Coating

Highlights

- Polyurea based
- Solvent-free
- Used for waterproofing on roofs and terraces
- Can be applied quickly and easily with an application machine
- Cures very quickly after application and becomes ready for use
- Can be applied even at very low temperatures and high ambient humidity
- High mechanical and chemical resistance; long-lasting
- High thermal resistance
- Does not lose its elasticity even at very low temperatures; does not become brittle
- Resistant to UV radiation



3.2. 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 with a two-component spray machine. The machine used for this purpose must be able to spray the material at a pressure of at least 140 bar, heat the individual components under temperature control, and operate at a volumetric mixing ratio of 1:1. Once the components have been loaded into the reservoirs, they are heated to an application temperature of at least 70 °C. Application must not be started before both components have reached the application temperature.

Once the correct temperature is reached, the material is sprayed onto 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.

The product cures within a few minutes after the two components are mixed. After application, **StenCoat® 2PU TOP UV** can be used as a protective layer to increase the resistance of the surface.

3.3. Cleaning

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

4. Safety

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

The application must be carried out by skilled workers under the supervision of experts and the applicators must use all personal protective equipment required for the worksite and the task such as goggles, mask and gloves.

5. 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 being warmed to +20 °C and homogenized. After prolonged storage, the product must be stirred thoroughly before use.

6. Disclaimer

This document is provided for general information and is based on **Stenkim®**'s laboratory data and field experience at the time of publication. **Stenkim®** reserves the right to revise this information without prior 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 purpose and for all conditions of transport, storage, application, 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.



7. Technical Data

Property	Method	Result
Base Polymer		Two-Component Polyurea
Solids Content (by weight)		100%
Color		Catalog
Density		1.03 ± 0.05 g/cm ³
Application Thickness (per coat)		min. 1 mm
Hardness	EN ISO 868	D50-60
Tensile Strength	ASTM D 412 Die B	20 N/mm ²
Elongation at Break	ASTM D 412 Die B	> 350%
Impact Resistance	EN ISO 6272-1	≥ 20 Nm (No Damage)
Pot Life @20 °C		2-3 seconds
Ready for Light Foot Traffic @20 °C		4-5 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.

