StenSeal® PU 202

1. Product Profile

StenSeal® PU 202 is a single component, cold applied, chemically curing, non-sag type, polyurethane based, elastomeric joint sealant. It has high movement capability and resistant to dynamic movements. It is resistant to accidental spills of organic and inorganic acids and alkalis, oils, fuels and antifreezes and many chemicals. It is resistant to UV radiation.

StenSeal® PU 202 is available in 600ml sausages.

Sausage Type
Cold Applied
Polyurethane Sealant

Highlights

- Polyurethane based, single component
- Cold applied and non-sagging
- Ready to use
- Suitable for both indoors and outdoors
- Fit for both vertical and horizontal joints
- High adhesion
- Resistant to dynamic movements
- Resistant to various chemicals
- Resistant to UV radiation

2. Uses

StenSeal® PU 202 is practical. It can be used for all interior or exterior joints. Due to its high elasticity, it is especially recommended for use with joints and laps subject to high amount of movement, or joints constructed narrower than required. It is used at floors subject to pedestrian and light vehicle traffic and wherever high elasticity is preferred over bearing strength. It can also be used for isolation of joints between marble tiling, porcelain tiles, interfaces between walls and woodworks, pipe passing etc.

3. Joint Design

StenSeal® PU 202 is appropriate to use at narrow joints because of its high elasticity. Joint width must not be less than four times the expected movement or 6 mm. Up to 20 mm width, sealant depth must be equal to 80% of the width. For wider joints, sealant depth must be set to 16mm. For adjusting depth backer material must be used inside the joint.

4. Application

4.1. Surface Preparation

Joint surfaces must be clean and dry. Oil, grease, bitumen or sealant remains must be completely removed. Loose materials on the joint walls must be removed; broken joint walls must be repaired.

StenSeal® PU 202 is affected from water before curing like all other polyurethane materials. Therefore, the joints must be dry and the sealant must not contact water until chemical curing occurs.

4.2. Primer

StenSeal® PU 202 can be used in concrete joints without primer. However, in any case primer application minimizes the negative effects of possible contamination, concrete moisture and loose materials. Therefore; StenAst® S is recommended for all kind of surfaces.

4.3. Backer Material

A rod which preferably does not adhere to the sealant must be placed in the joint in order to attain the sealant depth determined according to the joint width. Closed cell polyethylene foam rods are suitable for this purpose. Diameter of the rod must be 10 – 25% larger than the joint width; the rod must be placed tight in the joint. Rods must not be damaged during placement. In wide joints, semi-rigid materials like polystyrene foam can be used instead of rod. In such cases, it is helpful to place a polyethylene tape over backing material in order to prevent adhesion to the sealant.

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4.4. Application

StenSeal® PU 202 sausages should be cut on a side and put into an application apparatus with piston (sealant gun – applicator). Cartridges can be applied directly. A nozzle with a diameter enabling it to enter into the joint must be fitted to the apparatus and while the sealant is applied this tip must be moved forward by sliding over the backer material in the joint. Thus, it is ensured that no gap is left under the sealant and sufficient amount of sealant is used. After the application sealant surface can be finished by means of a spatula. Application can be carried out directly with a spatula. It is recommended to tape both sides of the joint before starting application on joints especially where the decorative look is important. In this manner material smeared outside of the joint during the application is removed by pulling off the tape after the application.

5. Cleaning

Application devices and other sealant smudged devices must be cleaned before the sealant cures. For that purpose, tools first wiped with cloth or oakum must be cleaned with StenSolver CL or aromatic solvents such as toluene and xylene.

6. Safety

Applicators and supervisors must read Material Safety Data Sheet (MSDS) carefully and observe the considerations written therein. 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

The material must be kept away from sunlight in dry indoor storage. Recommended storage temperature is 10-30°C. Stored in these conditions, the shelf life of unopened containers are 12 months.

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	Test Method	Result
Base Polymer		Single Component Polyurethane
VOC Content		40 g / l
Color		Color Catalog
Movement Capability	Expansion	25 %
Movement Capability	Contraction	25 %
Elongation at Break	ASTM D 412 Die B	>400%
Density		1.28±0.05 g/cm^3
Durometer Hardness (Shore)	ASTM D 2240	A40±5
Resilience	TS 5926 EN 14188-2	>95 %
Skin Formation Time @23 °C, %50 RH		4 hours
Rate of Cure @23 °C, %50 RH	TS 5926 EN 14188-2	1-2 mm / 24 hours
RELATED STANDARDS: ASTM C-920, TS 5926 EN 14188-2, ISO 11600		

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

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