

Technical Data Sheet

White Sand PU SEAL 328 HM

High Modulus Weatherproof Construction Sealant

Product Description

PU SEAL 328 HM Construction is a one-component, High modulus elastic sealant, suitable for waterproof sealing of joints in building envelopes.

Applications

PU SEAL 328 HM Construction is applicable for various concrete movement joints (such as precast concrete joints) and concrete connection joints (such as door and window perimeter joints).

Product Features

- High modulus
- Excellent weather resistance
- ±25% movement capability
- Excellent workability, easy to smooth
- Good adhesion to various materials
- Paintable and sandable

Certifications and Standards

ASTM C920-18 (2024)

Product Performance Properties

Chemical Composition	One-component polyurethane sealant, moisture curing	
Packaging	600 ml sausage, 20 sausages/box	
Color	White, gray, black (Other colors available upon request)	
Shelf Life	9 months	
Storage Conditions	original unopened packaging in a dry environment at +5°C to avoid direct sunlight	
Density	~ 1.30 kg/l	(ISO 1183-1)

Technical Information

Curing Mechanism	Moisture-cured	
Shore A Hardness	~25 (28 days cure)	(ISO 868)
Elongation at Break	~ 700 %	(ISO 37)
Elastic Recovery	> 80 %	(ISO 7389)
Tear Strength	~ 4.0 N/mm	(ISO 34)
Modulus of Elasticity	≤0.40 N/mm² at 100% elongation (23°C)	(ISO 8339)
	≤0.60 N/mm² at 100% elongation (-20°C)	
Movement Capability	±25% (JCT 881)	

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Joint Design: Joint width must consider movement needs and sealant capability.

Recommended width: 10mm–35mm

Recommended depth: 8mm–15mm

Ideal width-to-depth ratio: 2:1

Typical concrete joint designs (per DIN 18540 / Table 3):

Joint Spacing	2m	2-3.5m	3.5-5m	5-6.5m	6.5-8m
Joint Width	10-15mm	15-20mm	20-25mm	25-30mm	30-35mm
Joint Depth	8mm	10mm	12mm	15mm	15mm

Joint design must comply with local codes and regulations, taking into account the building structure, component dimensions, technical requirements, sealant properties, and environmental conditions.

Once the sealant has been applied, the joint dimensions are usually not adjustable.

For questions, please contact the technical department.

Application Information

Product Consumption

Joint Width 10mm 15mm 20mm 25mm 30mm

Joint Depth 8mm 8mm 10mm 12mm 15mm

Length / 600ml ~7.5m ~4.5m ~2.5m ~1.6m ~1.3m

Backing Material	Closed-cell PE foam rod	
Sag Resistance	~0 mm (20 mm groove, 50°C)	(ISO 7390)
Application Temp.	+5°C-- +40°C	
Substrate Temp	+5°C -- +40°C, at least 3°C above dew point	
Curing Rate	~3 mm / 24 h (23°C / 50% r.h.)	(CQP 049-2)
Skin Time	~60–120 minutes (23°C / 50% r.h.)	(CQP 019-1)

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Application Instructions

Surface Preparation

Bonding surfaces must be clean, dry, solid, and homogeneous, free from grease, dust, loose particles, or cement laitance.

Primer or Pre-treatment Recommendations

Non-Porous Substrates:

For metals, coatings, etc., lightly sand and clean with PU-205 on a clean cloth. Allow to dry for 10 minutes, then brush on PU-3N primer. Let dry for 30 minutes (max 8 hours).

Porous Substrates:

For concrete, aerated concrete, cement render, mortar, brick, etc., apply PU-3N primer. Drying time: 30 minutes (max 8 hours).

Refer to

the latest product data sheet of PU-3N for application details.

Note: Primers are intended to promote adhesion and do not substitute surface cleaning or enhance substrate strength. Always test adhesion in advance on project-specific materials. Contact the technical team for detailed guidance.

Application Method

PU SEAL 328 HM Construction High Model is ready-to-use.

After preparing the substrate and inserting the backer rod, apply primer if needed.

Insert the sausage into a caulking gun and extrude into the joint, ensuring full contact with both sides and minimizing air entrapment.

Tool the sealant immediately to press it firmly into place.

Use masking tape for neat edges, and remove it before skin formation.

Tool Cleaning

PU SEAL 328 HM Construction can be removed with Remover-208 or Top-Clean T. Cured sealant can only be removed mechanically.

Important Notes

Fully cured PU SEAL 328 HM Construction can be painted. Perform compatibility tests beforehand.

Non-elastic paints may reduce sealant flexibility and cause cracking.

Color change (especially on white) may occur due to exposure to chemicals, high temperature, or UV, but this does not affect performance.

Not suitable for substrates like asphalt, natural rubber, EPDM, or materials that release oil, plasticizers, or solvents. Not recommended for joints under long-term water immersion (e.g., swimming pools).

Do not apply uncured sealant to alcohol-containing surfaces or mix with alcohol-based substances (e.g., solvents, release agents), which may interfere with curing.

Further Information

Refer to the product's Safety Data Sheet (SDS) for safe handling, storage, disposal, physical, ecological, toxicological, and other safety-related information.

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White Sand Product Quality

Ensuring the achievement of customers' requirements and conformance to national and international standards, all WHITE SAND products are developed and manufactured under the base of highly quality-oriented Product Development processes, and an independently standardized Quality Management System.

Technical Support

WHITE SAND provides technical support to its customers, consultations and technical guidance and assistance in many different applications of construction chemicals, tile adhesives and tile grouts selection, concrete repair systems, and waterproofing systems.

Additional White Sand Products

WHITE SAND produces a wide range of high-quality construction chemicals and specialty products including following product groups:

- Adhesives and Tiling Systems
- Waterproofing and Protective Coating Systems
- Concrete Repair & Restoration Systems
- Finishing & Paints Systems
- Admixtures for Mortar and Concrete
- Surface Treatments and Primers
- Industrial Flooring Systems
- Engineering Grouts and Anchoring Systems
- Resinous Protective Coating and Lining Systems

Disclaimer

The information given here is based on the best of our knowledge, good faith, experience and laboratory based results and therefore the results will vary depending on the real time application. Also, the values indicated in this Data Sheet here are subject to $\pm 10\%$ variance due to multiple factors. The performance of our Product depends on the workmanship/quality of application job at the site. Hence White Sand Company for Industry is not responsible for any sort of claims/disputes arising out of any negative results by using our ranges of products. White Sand Company for Industry is not held responsible for use of this product for applications other than specified and/or adopting any faulty application/curing methodologies. It is the user's responsibility to have through this Technical Data Sheet prior to applying our products and to ensure with White Sand Company for Industry that any product information is still prevailing at the time of application. Also the user must be sure that the product is suitable for the use intended and also applied it as specified while taking care of all precautionary measures. While all the products comply with the properties shown on current technical data sheets/brochures, White Sand Company for Industry does not warrant or guarantee the products' performance as it doesn't have any control over factors adopted during its actual application.



White Sand Co. for Industry

Jeddah, Saudi Arabia

info@whitesand.sa

www.whitesand.sa

