

## NEOSTIK HS-125

### One-part, hybride elastic sealant

**NEOSTIK HS-125** is a one-component, gun-grade, non-sag Hybride Polymer high modulus sealant. It cures under the influence of atmospheric moisture to form a permanently elastic sealant with excellent adhesive properties and resistance to ageing and weathering. Solvent- and isocyanate-free, it has 0 VOC. Outstanding body and thixotropy..

#### Fields of application:

- Sealing joints in vertical and horizontal applications
- External walling and cladding joints.
- Weatherproofing of joints between brickwork, block-work, masonry, wood, concrete, metal frames.
- Joints in walls, floors, balconies, around window or door frames
- Metal roof and gutter sealing
- Sealing and bonding between different materials
- Elastic bonding between metal, plastic, glass and other materials

#### Special features:

- Environmental friendly, free of isocyanates and solvents, no Hazard symbol
- No bubble formation - Odorless
- Permanently elastic over a wide range of temperatures; accommodates joint movement of  $\pm 20\%$
- Non-sag, exceptional thixotropy and short cut-off string
- No change in volume – No shrinkage
- Easy to gun with excellent tooling consistency
- Excellent primerless adhesion on all typical construction materials and substrates
- Non-staining. Neutral behavior, does not attack support surface
- Excellent resistance to ageing and weathering; color stable and non-yellowing
- Over-paintable with many water and solvent based paints (preliminary tests recommended)

#### Technical data:

Base	hybride technology
Solids content	ca 100%
Skin time	30 - 50 min at 23 °C and 50% relative humidity
Density	ca 1,51 g/ml
Cure rate	2 - 3 mm/24 h at 23 °C and 50% RH
Hardness Shore A	ca 28 (DIN 53505)
Module at 100%	>0,6 N/mm <sup>2</sup> (ISO 37 DIN 53504)
Tensile strength	>1,6 N/mm <sup>2</sup> (ISO 37 DIN 53504)
Elongation at break	>420% (ISO 37 DIN 53504)
Working temperature	+5 to +40 °C
Temperature resistance	-40 to +100 °C with brief points at +120 °C
Shelf life	min. 12 month in unopened package at +5 to +25 °C

**Limitations:**

- Not suitable for PE, PP, PC, PMMA, PTFE, soft plastics, neoprene and bituminous substrates
- Not suitable in combination with chlorides (pools)

**Surface preparation:**

Pre-test substrates for adhesion. Surfaces must be clean, dry, free of water, oil, grease or rust and of sound quality. Remove all loose particles or residues with a jet of compressed air, sandpaper or hard brush. Glass, metal and other non-porous surfaces must be free of any coatings and wiped clean with solvent.

Screw on the plastic nozzle and cut it at an angle according to the desired bead thickness and profile. Fit the cartridge into a manual or pneumatic air operated gun provided with telescopic piston, because of the high viscosity of the material and extrude the adhesive/sealant carefully preventing air entrapment. Once opened, packs should be used up within a relatively short time. The optimum operating temperature for both substrate and sealant is between 15°C and 25°C.

**Sealing:**

In order to guarantee free movement of the sealant in joints, it is imperative that the sealant does not adhere to the bottom of the joint, therefore for correct joint caulking, a closed-cell polyethylene bead (joint backing rod) is to be placed at the proper depth. Firmly extrude sealant and apply in the joint making sure that it is in full contact with the sides of the joint and with the backing rod at the

bottom. Keep the nozzle in the sealant, continue on with a steady flow of sealant preceding the nozzle to avoid air entrapment. Avoid overlapping of sealant to eliminate entrapment of air. Sealant should be tooled to a smooth finish ensuring a full contact to the sides and back up material into the joint, this will also contribute in breaking the air bubbles which may be formed inside the sealant. Masking tape should be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the sealant is still soft.

**Bonding:**

Apply in spots or bead on the prepared surfaces then firmly press the parts which have to be bonded together.

**Finishing:**

Tooling and finishing must be carried out within the tack-free time of the sealant. Neostik HS-125M can be over-painted. The paint must be tested for compatibility by carrying out preliminary trials. Attention must be observed with the use of alcohol or alkyd-resin since they may interfere with the curing process of the sealant and reduce the drying time of the paint itself. It should be understood that the hardness and film thickness of the paint may impair the elasticity of the sealant and lead to cracking of the paint film. Avoid exposure to high levels of chlorine (avoid sealing joints in chlorinated swimming pools). Avoid contact with alcohol and other solvent cleaners during cure. When applying sealant, avoid air-entrapment. Since system is moisture-cured, permit sufficient exposure to air. Bonded elements may require additional holding or support during curing period.

**Cleaning of equipment**

Clean tools with acetone or alcohol immediately after use. Cured material can only be removed mechanically.

**Storage**

Neostik HS-125 can be stored for 12 months in its original packing (unopened container) at 5°-25°C in a cool, dry place. The storage temperature should not exceed 25°C for extended periods of time. Keep away from wet areas, direct sunlight and heat sources.

**Certifications:**

	<p><b>EN 15651-1: F-EXT-INT</b>  <b>EN 15651-3: XS3</b>  <b>EN 15651-4: PW-EXT-INT</b></p>
 <p><b>EC 1 PLUS</b></p>	

**Health&Safety:**

Product Health and Safety Data Sheet must be read and understood before use. These are available on request.

Diese Angaben basieren auf Erfahrungswerten. Da wir auf die Verarbeitung keinen Einfluss haben, können wir nur für die gleichbleibende Qualität unserer Produkte garantieren. Änderungen vorbehalten.

These data are based on experience. As we have no influence on the processing, we are only able to guarantee the constant quality of our products. Subject to alterations.

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