



WORLD-CLASS CHEMICALS

TECHNICAL DATA SHEET

DOLPHIN PU 45 SEALANT

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PRODUCT DESCRIPTION

Dolphin PU 45 Sealant is a high quality, neutral, elastic, 1-component construction joint and adhesive sealant based on polyurethane.

TECHNICAL PROPERTIES



Properties	Specifications
Basis	Polyurethane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 35 mins → 45 mins
Curing speed * (23°C/50% R.H.)	Ca. 4 mm/24h
Hardness**	40 ± 5 Shore A
Density	Ca. 1.41 g/ml
Maximum allowed distortion	± 20 %
Max. tension (ISO 37)**	Ca. 2.15 N/mm ²
Elasticity modulus 100% (ISO 37)**	Ca. 1.35 N/mm ²
Elongation at break (ISO 37) **	> 700 %
Temperature resistance**	-30 °C → 90 °C
Application temperature	5 °C → 35 °C

Note:

*These values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

** This information relates to fully cured product.

(Information on this data sheet is subject to change without prior notice and should not be used for writing specifications)

(Curing time may vary depending on climatic condition during application)

PROPERTIES

- Very easy to apply
- Permanently elastic after curing
- Excellent resistance to UV radiation
- Very good adhesion on many materials
- Excellent resistance to many chemicals
- Not suitable for natural stone
- Paintable

APPLICATIONS

- All sealing and bonding applications in the building industry
- Structural bonding in vibrating constructions
- Sealing of shrinking joints in concrete floors
- Bonding of roof tiles



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Application method	<ul style="list-style-type: none"> • Application method: With a manual, pneumatic or caulking gun • Cleaning: Clean with Surface Cleaner, immediately after use cured Dolphin PU 45 sealant can only be removed mechanically • Finishing: With a soapy solution or Finishing Solution before skinning • Repair: With the same material
Packaging	Color: White, Black, Grey, Concrete Grey Packaging: 280ml (Cartridge) & 600ml (Sausage)
Storage and shelf life	12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.
Substrates	Substrates: all usual building substrates, metals, polyesters, ... Nature: rigid, clean, dry, free of dust and grease. Surface preparation: Dolphin PU 45 sealant has a good adhesion to most substrates. However, for optimal adhesion and in critical applications, such as joints exposed to extreme weather conditions, high- or water-loaded joints, we recommend following a pre- treatment procedure. The substrate areas that will be in contact with sealant must be clean, dry, and free of all loose materials, dust, dirt, rust, oil and other contaminants. Non - porous substrates should be cleaned with a solvent and a clean, lint - free, cotton cloth. Wipe dry immediately with another such cloth before the solvent evaporates from the surface. There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion and compatibility test on every surface.
Joint dimensions	Min. width for bonding: 2 mm Min. width for joints: 5 mm Max. width for bonding: 10 mm Max. width for joints: 30 mm Min. depth for joints: 5 mm Recommendation sealing jobs: Joint Width = 2 x Joint Depth
Health and safety recommendation	Take the usual labor hygiene into account. Consult label and material safety data sheet for more information.
Liability	The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.
Remarks	Dolphin PU 45 sealant is paintable with most water-based paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application. Dolphin PU 45 sealant cannot be used as a glazing sealant. Do not use in applications where continuous water immersion is possible. It is recommended to do a compatibility test prior to application. Dolphin PU 45 sealant has a good UV resistance but can discolor under extreme conditions or after very long UV exposure. Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discoloration and loss of adhesion. Do not apply or allow to cure in the presence of uncured silicone sealants, alcohol - or other solvent cleaners. When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.

KEEP OUT OF REACH OF CHILDREN • KEEP CONTAINER TIGHTLY CLOSED • FOR INDUSTRIAL & PROFESSIONAL USE

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