

P1005 – Technical Data Sheet



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Description

P1005 is a high-quality, neutral, elastic, one-component construction joint and adhesive sealant based on polyurethane. It can be used on all usual building substrates, metals and polyesters. There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates.

We recommend a preliminary adhesion and compatibility test on every surface.

Typical Uses

P1005 applications include:

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

Benefits

P1005 offers the user the following benefits:

- Very easy to apply
- Permanently elastic after curing
- Excellent resistance to UV radiation
- Very good adhesion on many materials
- Excellent resistance to many chemicals

Physical Properties

Base	Polyurethane
Curing system	Moisture curing
Temperature resistance	-30°C to 100°C
Skin formation*	Ca. 15min
Hardness	40+5 Shore A
Maximum allowed	+20%
Elasticity modulus 100% (DIN 53505)	0,80 N/mm ²
Consistency	Stable paste
Density	Ca 1,30 g/ml
Application temperature	5°C to 35°C
Curing speed*	3mm/24h
Elastic recovery (ISO)	>80%
Max. tension (DIN)	1,70 N/mm ²
Elongation at break	700%

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

Joint Dimensions

Minimum width for bonding	2 mm
Maximum width for bonding	10 mm
Minimum width for joints	5 mm
Maximum width for joints	30 mm
Minimum depth for joints	5 mm

Recommendation for sealing jobs: joint width = 2 x joint depth

Directions for Use

Application method: With either a manual caulking gun or a pneumatic caulking gun.

Cleaning: Clean with white spirit immediately after use (before curing).

Finishing: With a soapy solution before skinning.

Repair: With the same material

Precautions

P1005 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.

P1005 has a good UV resistance but can discolour under extreme conditions or after very long UV exposure.

It is recommended to do a compatibility test prior to application.

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 discolouration and loss of adhesion.

Do not apply or 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.

Please consult the P1005 Health & Safety Data Sheet for statutory regulation information.

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