

DUROFLEX-PU



High adhesion polyurethane elastomeric sealant



PROPERTIES

One component, polyurethane based, elastomeric joint filler. It presents strong adhesion on smooth surfaces without priming. Very porous surfaces should be primed using DUROSTICK PRIMER-PU. It does not grease the surface it's applied on. It has exceptional mechanical strengths, and withstands sun and snow. It remains unaffected by potable or sea (salt) water, it is paintable and is effective for sealing joints of 6-30mm wide and of 3-15mm deep.

APPLICATIONS

DUROFLEX-PU is suitable for high quality flexible seals, for multitude of applications:

- **Overring expansion joints in buildings**, airport runways, cement pipe joints and pre-cast concrete walls
- **Joint sealant** for window and door frames made of aluminum, metal, PVC and wood
- **Perimeter building seals** of the outdoor joints between horizontal and vertical surfaces

- **Preserving the installation and sealing** of the lined surface, both indoors and out, by sealing the expansion joints. It also protects all termination points of the floor tiles, at their junctions with walls or parapets, as well as around all balcony walls, before skirting installation
- **Sealing of metal and wood rails** at the penetration (contact) points with marble, natural stone or concrete slabs on roofs, as well as balconies and walls
- **Sealing of cracks 1-3mm** wide using a metal putty knife, on roof surfaces to be waterproofed with either cementitious or polyurethane based waterproofer of DUROSTICK
- **Shipyards applications** use it on every flexible seal or adhering polyester with wood, stainless steel and/or aluminum

USE

1. Surface preparation

The substrate must be sound, dry, clean and free from grease and loose paint. On concrete or

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plaster surfaces, use a wire brush and/or vacuum cleaner or compressed air, and brush, to remove all loose materials and dust from the sides of the joints.

The depth of the joint is determined by one half of its width, and can be adjusted by using the backer rod, DUROSTICK DS-265, made of expanded polyethylene, where necessary. Use masking tape at the edge of the joints to contain the sealant at the appropriate width. For improved adhesion and to create unbreakable bonding use PRIMER-PU of DUROSTICK on all porous materials such as wood, marble, natural and artificial stone, and clay roofing tiles before the application of DUROFLEX-PU. Metal surfaces should be cleaned with, either white spirit or DUROSTICK THINNER 101.

Gloss surfaces such as glass, porcelain, stainless steel, etc., do not require any priming.

2. Application

It is recommended to use, either DUROFLEX-PU in cartridge form, together with the DUROSTICK PROFESSIONAL CARTRIDGE GUN, or use the 'sausage' form, together with the DUROSTICK DUROSEAL 600, the professional cartridge and 'sausage' barrel gun.

Cut the nozzle diagonally, and guide the cartridge at a 45° angle in relation to the joint. Make sure that the joint is filled completely without trapping any air and that the sealant is in full contact with the sides of the joint. If specified, and while the sealant has not set yet, spray its surface with a mixture of water and some dishwashing detergent, and smooth the surface using your finger.

Surfaces primed with PRIMER-PU, have to be sealed after an hour, the earliest, to three hours, the latest, after its application.

Any residue on the hands can be removed, before the product completely cures, using the biodegradable cream for cleaning hands, BIO-CLEAN of DUROSTICK.

Any residues on the surfaces have to be cleaned with acetone, following all manufacturer instructions.

NOTE

After hardening, the product is harmless to health.

CLEANING

Clean all the tools with white spirit or DUROSTICK THINNER 101, immediately after use. Any residue on the hands should be removed before it dries completely with DUROSTICK BIO-CLEAN biodegradable hand cleansing cream. Residues on the surfaces are cleaned with acetone.

CONSUMPTION

Indicatively a cartridge will fill

JOINT	LINEAR METERS
4x6mm	12,9
6x6mm	8,6
8x6mm	6,4
12x8mm	3,2
16x10mm	1,9
20x12mm	1,3

STORAGE

Store in dry and cool places, in the original sealed packaging for at least 12 months after production date.

SAFETY DIRECTIONS

The product is classified as harmful. It is recommended to keep away from the reach of children. Before use, refer to the cautions on the product packaging or the Material Safety Data Sheet.

PACKAGING

- Carton box with 12 cartridges of 310ml
- Carton box with 15 'sausage' tubes of 600ml

TECHNICAL SPECIFICATIONS

Base	Polyurethane
Form - Color	Paste - White, Gray
Application temperature	From +5°C to +30°C
Temperature resistance	From -30°C to +80°C
Density	1,15-1,19kg/lt
Skin formation time	15-20 minutes
Curing rate	2-3mm/day (23°C, 50% R.H)
Joint movement capability	25%
Paint ability	With water soluble paints

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MECHANICAL STRENGTHS 2mm film

Shore-A hardness (3s)	20 per DIN 53505
Modulus of Elasticity 100%	0,2 MPa (N/mm ²) (DIN 53504)
Elongation at break	> 600% per DIN 53504



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