

# 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 is durable against UV radiation, frost, and mechanical stress. It does not grease the surface it's applied on. 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:

- **Filling expansion joints in buildings**, airport runways, cement pipe joints and precast concrete walls.
- **Joint sealing around window and door frames** made of aluminum, metal, PVC and wood.
- **Perimeter building sealing of the exterior** joints between horizontal and vertical surfaces
- **Preserving the installation and sealing** of the lined surfaces, by sealing the interior and exterior, 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 waterproofers of DUROSTICK
- **Shipyard applications** use it on every flexible seal or adhering polyester with wood, stainless steel and/or aluminum.

The technical specifications and directions of use contained in this technical data sheet are the results of the knowledge and experience of the company's research and development department, as well as from the real-life applications of the product. The recommendations and suggestions regarding the use of the products are made without guarantee since the respective conditions during their application are beyond the control of the company. For this reason, it is the user's responsibility to make sure that the product is suitable for the intended application as well as the application conditions of the project.

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### ■ USE

#### 1. Surface preparation

The substrate must be sound, dry, clean and free from fats and paints. On concrete or 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's 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 desired, 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.

### ■ 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 BIOCLEAR 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 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 Safety Data Sheet.

### ■ PACKAGING

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

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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

MECHANICAL STRENGTHS of 2mm film	
■ SHORE A hardness (3s)	20 per DIN 53505
■ Modulus of Elasticity 100%	0.2 MPa (N/mm <sup>2</sup> ) per DIN 53504
■ Elongation at break	> 600% per DIN 53504

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