

One component, thixotropic, polyurethane sealant

Permanently flexible, thixotropic polyurethane sealant.

DUROFLEX hardens by reacting with the humidity of the air. Due to their excellent adhesion and flexibility they are applicable on both horizontal and vertical surfaces. The sealant is available in three quality versions: DUROFLEX STANDARD, DUROFLEX PRO and DUROFLEX EXPERT 60. The different technical properties are listed in the summary table.

AREAS OF USE

- Expansion and construction joints of industrial floors
- To seal prefabricated concrete structures
- Flooring of parking lots, stores, shopping malls
- Door and window frames
- Construction of air-conditioning, ventilation and heating systems
- Crack sealing
- General adhesive
- Dilatation joint of concrete both inside and outside

TECHNICAL FEATURES

- Excellent adhesion on almost all surfaces (concrete, wood, ceramic, marble, metal, gypsum board, glass)
- Excellent weather resistance
- High chemical resistance
- Outstanding resistance to thermal fluctuations (remains flexible between -40 and 80°C)
- Great resistance to aging
- Paintable
- Concrete gray color (custom colors are available in case of large quantities)

DIRECTION FOR USE

The application surface must be sufficiently solid and clean, free from dust, grease, moisture, or any anti-adhesion matter. Clean the sides of grouts from laitance and other poorly adhering materials. MICROPRIMER is recommended to get perfect adhesion. Application of MICROPRIMER is highly recommended for joints with extreme weather exposure or in cases requiring high performance. The edges of joints should be covered by adhesive tape if necessary.

DUROFLEX pastes should be applied by a press pistol or compressor.

In order to provide proper flexibility, please ensure that paste sticks only to the walls but not to the base of the gap. Apply DUROFOAM filling profile to control the depth of the gap and to avoid DUROFLEX and DUROFLEX PRO sticking to the bottom. After use the tools can be cleaned with paper towel and then acetone or xylene.



MATERIAL CONSUMPTION

Linear meters per sausage of a 600 ml according to the gap size.

WIDTH	5 mm	10 mm	15 mm	20 mm	25 mm
DEPTH					
5 mm	24 fm	12 fm			
10 mm		6 fm	4 fm	3 fm	2,4 fm
15 mm					1,6 fm

(If the gap width is over 10 mm, the width/depth ratio should be at least 2:1)

PACKAGING

DUROFLEX STANDARD: In 600 ml units, 15 sausages/package.

DUROFLEX PRO: In 600 ml units, 20 sausages/package.


DUROFLEX EXPERT 60: In 600 ml units, 15 sausages/package.

STORAGE

It can be kept in unopened package at temperature between +10°C and +25°C for 12 months in a dry, cool place.

Protect from direct sunlight and from frost.

TECHNICAL SPECIFICATION

TECHNICAL FEATURES	DUROFLEX STANDARD	DUROFLEX PRO	DUROFLEX EXPERT 60	NOTE
Raw material	polyurethane paste reacting with the humidity of the air	polyurethane paste reacting with the humidity of the air	polyurethane paste reacting with the humidity of the air	contains isocyanate
Density	cca. 1,45 g/cm ³	cca. 1,15 g/cm ³	cca. 1,45 g/cm ³	DIN 53217 ASTM D1475
Consistency	thixotropic	thixotropic	thixotropic	thixotropic
Touch dry	2 hours	40-50 min	25-30 min	at +23°C, 50% RH
Curing speed	ca. 2-3 mm/day	3,5 mm/day	3,5 mm/day	at +23°C, 50% RH
Application temperature	between +5°C and +25°C	between +5°C and +40°C	between +5°C and +40°C	
Heat resistance	between -40°C and +60°C	between -40°C and +80°C	between -40°C and +80°C	
E-modulus	ca. 0,3 N/mm ²	0,2 N/mm ²	0,2 N/mm ²	DIN 52455 ASTM D412
Shore A hardness	ca. 30	40-45	60	DIN 53505 ASTM D2240
Elastic recovery	>90%	>70%	>80%	DIN 52458 ISO 7389
Elongation at brake	>700%	>950%	>600%	DIN 53504 ASTM D412
Adhesion to concrete	>20 kg/cm ² (>2 N/mm ²)	>20 kg/cm ² (>2 N/mm ²)	>20 kg/cm ² (>2 N/mm ²)	ASTM D4541
Environmental assessment				ISO 11600 F-25LM (EN) SNJF F 25E FDA specifications ASTM C920