DUROFLEX

One component, thixotropic, polyurethane sealant

Permanently flexible, thixotropic polyurethane sealant.
DUROFLEX and **DUROLFEX PRO** harden by reacting with the humidity of the air. Due to them excellent adhesion and flexibility they are applicable on both horizontal and vertical surfaces.

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
- Granite and marble surfaces
- 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 and **DUROLFEX PRO** 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 **DUROLFEX PRO** sticking to the bottom. After use the tools can be cleaned with paper towel and then acetone or xylene.

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Ipari Park 3508/23 hrsz.

MATERIAL CONSUMPTION

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

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

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

PACKAGING

DUROFLEX: In 600 ml units, 24 sausages/package.
DUROFLEX PRO: In 600 ml units, 20 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	DUROFLEX PRO	NOTE
Raw material	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/cm³	cca. 1,15 g/cm³	DIN 53217 ASTM D1475
Consistency	thixotropic	thixotropic	thixotropic
Touch dry	2 hour	40-50 min	at +23°C, 50% RH
Curing speed	ca. 2-3 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	
Heat resistance	between -40°C and +60°C	between -40°C and +80°C	
E-modulus	ca. 0,3 N/mm²	0,2 N/mm²	DIN 52455 ASTM D412
Shore A hardness	ca. 30	40-45	DIN 53505 ASTM D2240
Elastic recovery	>90%	>70%	DIN 52458 ISO 7389
Elongation at brake	>700%	>950%	DIN 53504 ASTM D412
Adhesion to concrete	>20 kg/cm² (>2 N/mm²)	>20 kg/cm² (>2 N/mm²)	ASTM D4541
Environmental assessment		ÉMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C	ISO 11600 F-25LM (EN) SNJF F 25E FDA specifications ASTM C920

DECLARATION OF PERFORMANCE

EN-CPR-FU02/2016

1. Unique identification code (name) of the product-type:

   Duroflex Pro

2. Type, batch or serial number or any other element allowing identification of the construction product:
   Product code in noted on the packaging.

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:
   Permanently elastic, humidity-curing, one-component polyurethane joint sealant. Expansion joints in floors for indoor and for outdoor use.

4. Name, registered trade name or registered trade mark and contact address of the manufacturer:
   Durostone Kft. – 2038 Sóskút, Ipari park 3508/23 hrsz., Hungary

5. Where applicable, name and contact address of the authorised representative:
   Not relevant

6. System or systems of assessment and verification of constancy of performance of the construction product:
   System 4

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:
   Relevant standard: EN 15651-4 and EN 15651-1

   The manufacturer has made the examination of the product, the production process and executes continuous surveillance, assessment and approval of factory production control.

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:
   Not relevant

9. Declared performance

Essential Characteristics	Performance	Harmonised technical specification
Density	ca. 1.15 g/cm^3	DIN 53217 ASTM D1475
Touch dry	40-50 min	at +23°C, 50% rel. humidity
Curing speed	3.5 mm/day	at +23°C, 50% rel. humidity
Tensile Stress at 100% elongation	ca. 0,2 N/mm2	DIN 52455 ASTM D412
Shore A hardness	40-45	DIN 53505 ASTM D2240
Elastic recovery	>70%	DIN 52458
Elongation at break	>950%	DIN 52455 ASTM D412
Emissions of hazardous substances	Type F- class: 25 LM	ISO 11600

- NPD Nincs meghatározott teljesítmény (No Performance Determined)

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.
    This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Ákos Révai managing director

Place and date of issue: Sóskút, 15.01.2016

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