

Flexseal PU440

One component polyurethane sealant



Description

Flexseal PU440 is a one component polyurethane sealant that cures by reacting with the air humidity to form a tough and highly elastic low modulus sealant. Flexseal PU440 has a very wide service temperature range. Suitable for vertical and horizontal joints.

Applications

- ▲ General sealing of construction joints.
- ▲ Water tanks.
- ▲ Irrigation channels.
- ▲ Basement walls.
- ▲ Precast concrete elements.
- ▲ For concrete, wood, marble, aluminum, steel, ceramic, gypsum bords, etc.

Advantages

- ▲ Very easy and economical to use.
- ▲ One component.
- ▲ Excellent aging resistance.
- ▲ Paintable.
- ▲ Remains elastic at temperatures up to -40°C.
- ▲ Recommended for under water applications.
- ▲ Good resistance to microorganisms and a variety of chemicals.
- ▲ Suitable for drinking water.
- ▲ Suitable for sealing joints in swimming pools.
- ▲ Good adhesion to most surfaces without need of priming.

Standards

Flexseal PU440 complies with:

- ▲ ISO11600, Type S,N,J,F, Class 25E.
- ▲ DIN18540-F.
- ▲ ASTM C920.
- ▲ U.S. Federal specification TT-S-00230C, Type 2, Class A.

Method of Use

Priming

- ▲ No primer is required for most building substrates, such as glass, aluminum, sound and clean concrete, steel, etc.
- ▲ For porous substrate, use Flexprime ES200.
- ▲ For non-porous substrates, use Flexprime NP100

Technical Properties:

Color:	White, grey & black <i>Other colors may be provided on request</i>
Density:	1.18 gr/ cm ³
Hardness Shore A:	± 25
Service temperature:	-30 up to 80°C
Shock temperature:	120°C
Application temperature:	5 up to 40°C
Adhesion in peel:	> 32 N
Touch free time:	2 hrs. @ 25°C & 55% RH
Cure rate:	≈ 2 - 3 mm/ day
Elongation at break:	> 600%
Tensile strength at 100% elongation:	> 2.5 MPa
Modulus @100% (ISO8339):	Ca 58 psi (0.4 MPa)
QUV accelerated weathering test: (4 hrs. UV @ 60°C (UVB-Lamps) & 4 hrs. COND @ 50°C)	Passed After 2000 hrs.
Thermal resistance:	Passed 100 days @ 80°C

Application

The recommended application temperature range is 5°C to 40°C. For cold weather application, store the product in a heated area at 20°C for 24 hours prior to use. Install polyethylene joint backing rod to control the sealant depth.

Tooling and finishing should be carried out immediately after the application of the sealant. For optimum performance, the ratio of width to depth of the sealant should be 2:1. Minimum sealant depth should however be 10 mm.

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Limitations

- ⬆ Not recommended for unsound substrates.
- ⬆ Although Flexseal PU440 is generally paintable, it is recommended test for the specific paint compatibility.
- ⬆ Long exposure to UV, will reduce surface gloss, but will not affect sealant performance.

Cleaning

Clean tools and equipment first with paper towels and then wipe by using Acetone, xylene or other suitable solvents.

Packaging

Flexseal PU440 is available in 600 cc sausages. 300 ml sausages and 300 ml cartridges are available on request.

Consumption in joints

(Linear meter per 600 cc sausage)

Width \ Depth	5 mm	10 mm	15 mm	20 mm	25 mm
5 mm	24	12			
10 mm			4	3	2.4
15 mm					1.6

Storage

Flexseal PU440 should be stored in original unopened packages at temperature of 5°C - 25°C in a dry place.

Shelf Life

Flexseal PU440 has a shelf life of 12 months if stored under the recommended conditions.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

Cautions

Health and Safety

If Flexseal PU440 comes into contact the eyes, flush with copious volumes of cold water and obtain medical attention.

Product is non-hazardous once cured.

For further information refer to the Material Safety Data sheet.

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- ⬆ Concrete admixtures.
- ⬆ Grouts and chemical fixings.
- ⬆ Concrete repairs.
- ⬆ Industrial floorings.
- ⬆ Structural protection.
- ⬆ Waterproofing.

Note:

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