

DONSEAL PU440

One component, non sag, elastomeric polyurethane sealant with high tear and weather resistance



TECHNICAL DATA SHEET PUBLISHED OCT 2021

PRODUCT FEATURES

Donseal PU440 is a one component non sag polyurethane sealant that cures by reacting with air humidity to form a tough and highly elastic low modulus sealant. Donseal PU440 has a very wide service temperature range.

Donseal PU440 is suitable for vertical and horizontal joints in the following applications:

- ▲ General sealing of construction and expansion joints.
- ▲ Flooring joints.
- ▲ Basement walls.
- ▲ Precast concrete elements.
- ▲ For concrete, wood, marble, aluminum, steel, ceramic, gypsum boards, etc.

STANDARDS

Donseal PU440 complies with BS EN 15651-1, F-EXT-INT-CC, 25 HM AND ISO 11600, TYPE F, 25 HM

MATERIALS SUPPLIED

600 ml sausages and 300 ml cartridges are available on request.

STORAGE

Store in original unopened packages at a temperature between 5°C and 25°C in a dry place.

SHELF LIFE

12 months if stored under good condition.

CONSUMPTION

(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

TECHNICAL INFORMATION

Colour	Various
Density	1.16 ± 0.03 g/cm ³
Hardness Shore A	40 ± 5
Service temperature	-30 up to 100°C
Shock temperature	120°C
Application temperature	5 up to 35°C
Adhesion in peel	> 32 N
Touch free time	2 hr @ 25°C & 55% RH
Cure rate	≈ 3 mm/day
Elongation at break	> 500%
Tensile strength at 100% elongation	> 2.5 MPa
Modulus @ 100%: ISO 8339	0.4 MPa
QUV accelerated weathering test: (4 hr UV @ 60°C (UVB-Lamps) and 4 hr COND @ 50°C)	Passed After 2000 hr
Thermal resistance	Passed 100 days @ 80°C
Movement accommodation:	± 25%
VOC:	< 75 g/ltr

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

All substrates should be clean, dry, free from dust, oil, grease and any contaminations that could effect the bonding.

If the substrates need to be cleaned, use methyl ethyl ketone (MEK), acetone or grease remover. Always be sure that the substrates are dry before the application.

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PRIMING

Donseal PU440 generally has strong adhesion to common clean, dry and sound substrates without primers. However, Donseal Prime PU can be used on porous substrates in order to achieve optimum bond strength.

For joints of porous substrates which will be continuously submerged in water, it is recommended to use Donseal Prime PU.

APPLICATION

The recommended application temperature range is 5°C to 35°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 5 mm.

CLEANING

All tools should be cleaned immediately after finishing with paper towels and then wipe by using Acetone, xylene or other suitable solvents.

PRECAUTIONS

Not recommended for unsound substrates.

Although Donseal 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

HEALTH & SAFETY

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

Product is non-hazardous once cured.

Donseal PU440 is nonflammable.

GENERAL GUIDANCE

This data sheet is for general guidance purposes only and may contain information that is inappropriate for certain conditions of use. Accordingly, all recommendations and suggestions are made without guarantee. Further information is available from our Technical Services Department.



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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

 expertise

 quality

 full range

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