

# Donseal SL445

One component elastomeric self-levelling polyurethane sealant (Formerly known as Flexseal SL445)



## Description

Donseal SL445 is a one component self leveling polyurethane based elastomeric sealant which cures under the effect of atmospheric humidity to form a flexible and resistant joint.

## Applications

Donseal SL445 is designed for use in horizontal expansion joints, interior and exterior joints and floor joints such as:

- ▲ Pavements and sidewalks.
- ▲ Balconies and Terraces.
- ▲ Warehouses and garages.
- ▲ Plazas and decks.
- ▲ Industrial floors.
- ▲ Pitch pans.

## Advantages

- ▲ Single component.
- ▲ Easy to apply self leveling sealant reducing waste.
- ▲ Excellent weatherability.
- ▲ No primer required on most substrates.
- ▲ High movement accommodation factor (25%).
- ▲ High service temperature range.
- ▲ Extremely elastic with high durability.

## Method of Use

### Substrate preparation

- ▲ Concrete must be even, clean, dry, free of dust, oil, grease and any other contaminants that could harm bonding. All traces of poorly adherent paints or coatings should be systematically removed beforehand.
- ▲ It is recommended to clean concrete with a metal brush and to dust it off using air blowers.

The recommended application temperature range is 41°F to 95°F (5°C to 35°C) . Install polyethylene joint backing rod to control the sealant depth. Tool as required, although minimum tooling is necessary.

For optimum performance, the ratio of width to depth of the sealant should be 2:1. Minimum sealant depth should however be 1/4" (6 mm).

## Technical Properties:

Colour:	Grey, white, black
Specific gravity @ 68°F (20°C):	1.15 ± 0.02
Shore A hardness: ISO 868 - 3 seconds	40 ± 5
Viscosity @ 68°F (20°C):	Brookfield RVT/spindle 5/7 rpm: ≈ 500 poise
Application temperature:	41 up to 95°F (5 to 35°C)
Skin formation time:	60 min @ 73°F (23°C) & 50% RH
Cure rate:	4 mm/day @ 73°F (23°C) & 50% RH
Service temperature:	-40 to +194°F (-40 to +90°C)
Modulus @100%:	58 psi (0.4 MPa)
Elongation at break: ISO 8339	> 500%
Resistance to dilute acids and bases:	Average
UV resistance:	Good
Water and salt spray resistance:	Excellent
Compatibility with paints:	Water based : Yes Solvent based: Carry out tests beforehand

## Limitations

- ▲ Can be applied by a manual or pneumatic gun. This product should be used within 24 hours of opening the sausage; otherwise, the sealant could harden in the sausage.
- ▲ Do not apply at a temperature under 41°F (5°C). For cold weather application, store the product in a heated area at 68°F (20°C) for 24 hours prior to use.
- ▲ Do not apply on silicones or in presence of polymerised silicones or hybrid sealants (MS or SPUR). Avoid contact with alcohols and solvents during curing.
- ▲ Do not use on recent bituminous substrates because of oil exudation risk.

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## Cleaning

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

## Packaging

Donseal SL445 is available in 20.2 fl. oz (600 ml) sausages, larger packaging options are available upon request.

## Consumption in joints

(Lineal feet per 20.2 fl. oz sausages)

Depth/ Width	1/4"	3/8"	5/8"	3/4"	15/16"
1/4"	48.8	32.5			
3/8"			13.0	10.8	8.6
5/8"					5.2

## Storage

Donseal SL445 has a shelf life of 12 months from date of manufacture if stored at temperatures between 41°F (5°C) and 77°F (25°C) in the original, hermetically sealed unopened packaging in a controlled dry, cool and shaded area protected from frost, moisture, high temperatures and direct sunlight.

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

## Cautions

### Health and Safety

If Donseal SL445 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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- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

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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.

