

Flexseal EP400

Two-part hybrid epoxy sealant



Description

Flexseal EP400 is a two-part epoxy sealant, which when the components are mixed together, cures to form a hard wearing seal which is designed to accommodate a small degree of movement in tension but a considerable movement in compression.

Applications

For sealing stress relief joints in tiled floors and swimming pools (can be applied underwater), internal sanitary applications for public/secure areas e.g. prisons.

Note: Not recommended for structural expansion joints or for use in an external situation.

Advantages

- ▲ Tough yet flexible, excellent for use in trafficable areas.
- ▲ Long service life expectancy.
- ▲ High service temperature range.
- ▲ Fast cure minimizing down time.

Method of Use

Joint Preparation

The joint surfaces must be clean and free from all contamination. The surfaces should be degreased using the appropriate Flex cleaner.

Joint Backing

Where applicable, appropriate joint filler e.g. closed cell polyethylene foam, should be used to provide the correct joint depth.

Mixing

The base and curing agent ratio controls the adhesion, strength and durability of Flexseal EP400. The whole contents of the curing agent pack must therefore be added to the base and the components thoroughly mixed.

Application

The normal method of application is to fill the mixed sealant into empty cartridge dispensers using the follower plate supplied. The cartridge is placed over the hole in the centre of the plate. Steady downward pressure results in the cartridge being filled. The sealant is then ready for application using an Flex caulking gun. The sealant should

Technical Properties:

Colour:	Off white & grey
Typical shore D hardness:	70
Working life:	45 mins. @ 20°C
Application temperature:	10 - 40°C
Service temperature:	-20 - 90°C Intumesces at temperatures above 140°C
Cure rate:	48 hrs. @ 20°C. At colder temperatures the cure rate will be extended
UV resistance:	Good
Service life:	20 + years (when used in trafficked areas or in special environments such as swimming pools, the life may be reduced)
Movement accommodation:	
In tension	5%
In compression	50%

be extruded firmly into the joint by maintaining an even pressure on the trigger of the gun.

All joint preparation, priming, and sealant application should be carried out in accordance with BS8000, Part 16, the British Standard for the sealing of joints in buildings using sealants.

Chemical Resistance

Resistant to most alkalis and dilute acids; petrol, diesel or jet fuel and most chemicals likely to be found in swimming pools or similar situations.

Packaging

Flexseal EP400 is available in 1.2 litres packs (includes base and curing agent).

Flexseal EP400

Sealant Quantity Estimator

Joint size mm	Meters per litre
6 x 6	27.75
9 x 6	18.50
12 x 9	9.25
20 x 10	5.00

Joint Size Suitability

Joint Width

- ▲ Minimum 6 mm.
- ▲ Maximum 20 mm (single application).

Joint Depth

- ▲ Minimum 10 mm on porous substrates.
- ▲ Minimum 6 mm on non porous substrates.
- ▲ Maximum 10 mm.

Width : Depth Ratio

Contact DCP Technical Department.

Accessories

- ▲ Flex Cleaner TB130: 1 litre tin (Toluene based – not suitable for use with plastics or delicate finishes).
- ▲ Flex Cleaner AB160 : 1 litre tin (Alcohol based).
- ▲ Equipment: Bulk loading guns and heavy duty follower plates.

Cautions

Health and Safety

The curing agent of Flexseal EP400 contains epoxy resin and is therefore labelled 'Harmful' under the Chemicals (Hazard Information and Packaging for Supply) Regulations 1994. Avoid prolonged contact with the skin. The base component of Flexseal EP400 contains polyamide and is therefore labelled 'Irritant' under the Chemicals (Hazard Information and Packaging for Supply) Regulations 1994. Avoid prolonged contact with the skin. If sealant comes into contact with the eyes, flush with copious volumes of cold water and obtain medical attention.

For further information refer to the Material Safety Data sheet.

More from Don Construction Products

A wide range of construction chemical products are manufactured by DCP which include:

- ▲ Concrete admixtures.
- ▲ Grouts and chemical fixings.
- ▲ Concrete repairs.
- ▲ Industrial flooring.
- ▲ Structural protection.
- ▲ Waterproofing.

Note:

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.

www.dcp-int.com

