

Cemflex PU226

High performance, 2 part pouring grade polyurethane joint sealant

Description

Cemflex PU226 is a high performance pourable, self-leveling two component polyurethane joint sealant. When cured it will form a tough and flexible seal and its bond is capable of cyclic, expansion and compression movement. Joints or fabrications formed with this sealant can be expected to extend and compress a total of 55% ($\pm 25\%$) of original joint dimensions.

Cemflex PU226 is suitable for use in horizontal area with maximum slope gradient of $< 10\%$

Cemflex PU226 withstands the normal weathering conditions such as rain, sunlight, snow, sleet, ultra-violet radiation, ozone, atmospheric contamination and pollution. Its excellent weatherability enables it to retain its original properties after years of exposure. Its physical properties remain relatively unchanged over a wide temperature range (-40°C to 80°C).

Uses

- Granite, sandstone and marble
- GRC, Fibreglass & Specialty panel systems
- Potable water tanks
- Structure floor joints
- Garages & work shops
- Shopping malls
- Water tanks
- Precast and tilt up panels
- Sealing construction and expansion joints
- For sealing of concrete joints in traffic roadways. Industrial Floor

Advantages

- Non-staining to most substrates
- Low modulus 55% ($+ 25\%$) and high movement accommodation
- Excellent durability
- Excellent adhesion to most materials including metals, concrete, and brick
- High movement accommodation ($\pm 25\%$) ASTM C719
- Non staining
- Excellent application characteristics
- Good leveling
- easy to pour
- Excellent recover characteristics
- Provide permanent and uniform watertight seal
- Non toxic once cure

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Properties

Appearance	Part A Part B	light yellow transparent liquid Dyed viscous liquid
Density	Part A Part B Mixed	1.02g./cm ³ 1.35 g/cm ³ 1.26 g/cm ³
Movement capacity		$\pm 25\%$
Tack free time 25°C:		~ 60-90 Minutes
Hardness shore A		~50-60 ASTM C661
Tensile strength		> 2.4 N/mm ² ASTM D412
Chemical resistance		Resistant to mild acids, alkalis & some solvents. Intermittent contact with diesel and petroleum.
Elongation at break % ASTM D412		> 700
Application Temperature		5°C to 40°C
Temperature resistance		-40°C to $+80^{\circ}\text{C}$
Color		Grey, Black, white

Standards

ASTM C920, Type M, Grade NS&P, Class A
Federal Specification No. TT-S-00227E, Type I & II, Class A
BS 5212
JIS A5758

Mixing

Cemflex PU226 is supplied in a two pack, the base and curing agent are in the separated containers. Use a slow speed electric mixer fitted with a suitable paddle. Special paddles are available for this purpose. These paddles should rotate at less than 500 r.p.m. for 8-10 minutes till a uniform colour and consistency is achieved.

Mixing ratio part A : part B = 4 : 1 by weight.

Priming

Cemflex PU226 normally does not require priming. To achieve the maximum performance on surfaces and in all immersed applications use **Cemflex PU primer** prior to any application of **Cemflex PU226**.



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Application

Joint Preparation: Porous Surfaces - Any loose particles should be removed with a wire brush. If the surface is heavily contaminated with mould release or curing agent, it may be necessary to mechanically abrade them. Joint surfaces should be clean, dry and free from contamination.

Joint Size: Cemflex PU226 can be applied in single application to the joints up to 30 mm wide. In wider joints require multiple application techniques where the sealant is applied partially and allowed to cure between applications may be necessary to prevent slump. Joints made for **Cemflex PU226** application should be not less than 6 mm deep on non-porous surfaces and on porous surfaces the minimum joint depth should be increased to 10 mm. The required minimum width of joints moving in tension and compression should be not less than four and a half times the anticipated movement. A width / depth ratio of 2:1 should be adopted.

Where joints are moving in shear, it is recommended that the depth of sealant should be at least equal to the width. To provide optimum joint dimensions a back up material should be used, leaving the correct joint depth for the **Cemflex PU226**. Foam polystyrene strip is suitable for use as back up material and also the closed cell polystyrene foam can be used as a combined bond breaker and joint filler to control sealant depth. Care must be taken to avoid damage to the foam as it is inserted as, this can cause blistering of the sealant. A section of foam approximately 25% wider than the joint should be used

Cemflex PU226 is two component polyurethane sealants. Its begin to cure only when mixed together.

Packaging

Cemflex PU226 is supplied in the standard package :

- Part A 9.0 kgs/pail
- Part B 22.5 kgs/pail

Storage

The shelf life is two years in original unopened if it is stored between 5°C and 30°C.

Coverage

Calculation Formula: $\frac{W \times D \times L}{1000} = \text{Liters}$

W = Width(mm) D = Depth(mm) L= Length (meters)

Additional Information

Cemkcrete manufactures a wide range of those complementary products which include:

- Waterproofing membranes & waterstops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- Specialized flooring materials
- Fireproof coating and systems
- Concrete admixture
- Repairing material

For further information on any of the above, please consult your local Cemkcrete office - as below.

Important Note: Cemkcrete warrants its materials free of manufacturing defects and produced as per standard specifications and sold under the terms and conditions of usages, whilst Cemkcrete endeavors to ensure that any advice, recommendation, or information, given through its products literatures are reflects of the R&D in-house lab test and practical sites experience and knowledge based feed backs, however, the products are being used under various conditions and applied beyond its control where or how either directly or indirectly at various locations and places at a different stages that of an intended purposes and uses. Therefore, Cemkcrete cannot hold warranty or responsible for resultant consequences, such as damages to the property or assets but the product itself.