

Cemflex PU525

High performance, single component polyurethane joint sealant

Description

Cemflex PU525 is a high performance fast curing single component polyurethane 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 50% ($\pm 25\%$) of original joint dimensions.

Cemflex PU525 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 (-35°C to 80°C).

Uses

- Granite, sandstone and marble
- GRC, Fibreglass & Specialty panel systems
- Potable water tanks
- Metal curtain wall
- Water tanks
- Precast and tilt up panels
- Sealing construction and expansion joints
- For sealing of concrete joints in low traffic roadways.
- Industrial Floor

Advantages

- Enhanced cure rate by reaction with atmospheric Oxygen
- Non-staining to most substrates
- Low modulus 50%(+ 25%) and high movement accommodation
- Excellent durability
- Fast tack free time and cure rate
- Excellent adhesion to most materials including metals, concrete, and brick
- One component, no mixing required
- High movement accommodation ($\pm 25\%$) ASTM C719
- Paintable
- Non staining
- Excellent application characteristics
- Good slump resistance
- Wide color range

Standards compliance

ISO 11600.
BS 5889
BS 5215.
ASTM D 2203 - 93.
ASTM C719
ASTM C 920 – 87
ASTM D 412
ASTM C661
ASTM C794
ASTM D 2240

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Properties

Appearance:	Non-sag smooth thixotropic paste
Cure Method:	Moisture Curing
Density	1.2 g./cm ³
Movement capacity	$\pm 25\%$
Tack free time 30°C:	~ 60-90 Minutes
Rate of cure in mm/24hr	3.5
Hardness shore A	~15-20 ASTM C661
Tensile strength	~0.9-1.2 N/mm ² ASTM D412
Chemical resistance	Resistant to mild acids, alkalis & some solvents. Intermittent contact with diesel and petroleum.
Elongation at break	>600% ASTM D412
Application Temperature	5°C to 35°C
Temperature resistance	-35°C to +80°C
Color	Grey, Black, and White

Instruction for Applications

Preparation

All surfaces must be clean and dry by removing foreign matter and contaminants such as oil, dust, grease, frost, water, dirt, old sealants and any protective coating. Dust and loose particles should be blown out of joints or vacuum cleaned. Non porous surfaces may require preparation / priming, refer primer selection guide. Cleaning solvents should not be allowed to dry or evaporate without being wiped with a clean, dry cloth.

Priming

Cemflex PU525 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 PU525.

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Application

Cemflex PU525 should be dispensed from either the cartridge or sausage by means of a caulking gun. Pierce the membrane at the top of the cartridge and screw on the nozzle. Cut nozzle to give the required angle and bead size. Place the cartridge in a application gun and squeeze the trigger.

For sausages, a barrel gun is required, clip the end of the sausage and place in barrel gun. Screw end cap and nozzle on to barrel gun. Using the trigger extrude the sealant, to stop depress using the catch plate. Apply Cemflex PU525 in a continuous bead using enough pressure to properly fill the joint.

Joint Sealing Techniques

- Prime prior to the installation of the backing rod
- Always use backing rod for correct sealant geometry
- Ensure maximum adhesion to bond face and depth to width ratio of 1:1 to 12mm and 2:1 from 12– 50mm
- Tool sealant to achieve concave shape

Paintability

Cemflex PU525 is able to be painted after full cure. Coatings containing solvents such as enamels, oil based or other coatings may cause the surface of the sealant to react creating a tacky surface. A field test is recommended to ensure compatibility of the coatings with Cemflex PU525.

Packaging

Cemflex PU525 is supplied in the standard package :

- 310 ml cartridges
- 600 ml sausages

Storage

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

Coverage

The coverage below is the approximate lineal meter coverage per pack size.

SIZE	Lineal Meters 6mm Bead	Lineal Meters 20 mm Bead
310ml	11	2.5
600ml	19	4.5

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

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

Additional Information

Cemkrete 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 Cemkrete office - as below.

Important Note: Cemkrete warrants its materials free of manufacturing defects and produced as per standard specifications and sold under the terms and conditions of usages, whilst Cemkrete 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, Cemkrete cannot hold warranty or responsible for resultant consequences, such as damages to the property or assets but the product itself.