



# ULTRA PU FLEX

## Polyurethane joint Sealant

Admixtures

Surface Treatments

Protective Coatings

Concrete Repairs

Industrial Flooring

Grouts & Anchors,

Adhesives,

Water Proofing

Sealants

### Description

Ultra PU Flex is two components/Three component joint sealant based on polyurethane resins. When mixed, the two components/three components are vulcanized to an elastic and cohesive mass.

The sealant has excellent UV resistance and shows thermal stability (it contains UV stabilizers and antioxidants).

### Types:

**Ultra PU-3CV:** for vertical surfaces.

**Ultra PU-2CH:** for horizontal surfaces.

### Fields of Applications

Ultra PU Flex is suitable for sealing vertical and horizontal concrete joints in building and civil engineering and hydraulic works (irrigation canals, water supply system, tanks, concrete roads, runway joints, floor joints, bridges joints, dry ports, etc).

### Direction for Use

• The maximum anticipated joint deformity which depends on the length of the structural elements, the expansion coefficient of the substrate and the maximum anticipated temperature variation during the year, should not exceed 25-30% of the original width of the joints. Ideally, it is recommended that the minimum joint width should be no less than 1.0-1.5 cm and the maximum no more than 5cm. However, it can be used in application where the joints width is up to 8 cm. the sealing depth can be adjusted to 50% of the joint width, but should be at least 1.5cm.

• The joint sidewalls need to be thoroughly cleaned from

loose particles, dust, etc., by blowing with compressed air.

• When necessary, the joints sidewalls are primed with Ultra Primer-60.

• When necessary, the sealing depth is regulated with Ultra backing rod from expanded polyethylene. This way, the sealant does not adhere to the bottom of the joint and is thus free to move, following the expansion-construction movements of the joints.

### Application Ultra PU-3CV (For vertical surfaces)

Ultra PU-3KH three components is the best choice. Part-C filler will be mixed in art-B with spatula or slow speed mixer. After homogeneously mixing filler part-C and base part-B add part-A hardener in it and mix it well with spatula /slow speed mixer. Use the mixed material within 30 minutes to 60 minutes.

### Technical Properties (3 CV)

Tack free time (+230C)	6 h
Tension at 100% extension (DIN EN 28339)	20N/cm <sup>2</sup>
Tensile strength at break (DIN EN 28339)	45 N/cm <sup>2</sup>
Elongation at break point (DIN EN 28339)	450%
Hardness (Shore A)	18
Movement Capability	+/-25%
Recovery 100% extension	90%
Resistance to flow (+230C)	0mm

### Packing

**Ultra PU-3CV** is supplied in packing (A+B+C) of 5kg with components A,B and C having fixed ration by weight

### Application Ultra PU-2CH (For Horizontal Surfaces)

• The two components, packaged at a fixed ration by weight, need to be thoroughly mixed with the use of a proper mixer, e.g. a helical spiral mixer attached to a drill, Mixing should continue until the mixture is completely homogenization. Since the two components are of different



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color (A: White B: Black), the homogenization can be visually checked (when the mixture obtains homogeneous grey color, without darker or lighter spots or streaks, mixing is complete).

- The mixed sealant is applied into the joints by means of a special gun or spatula (for minor applications).

- The surface of the uncured sealant is smoothed with a spatula, so as to form a concave meniscus.

### Technical Properties(2 CH)

Tack free time (+230C)	4 h
Tension at 100% extension (DIN EN 28339)	15N/cm <sup>2</sup>
Tensile strength at break (DIN EN 28339)	35 N/cm <sup>2</sup>
Elongation at break point (DIN EN 28339)	400%
Hardness (Shore A)	14
Movement Capability	+/-25%
Recovery 100% extension	90%

### Storage:

Store in dry, cool condition and away from sources of heat and ignition. Containers must be kept tightly closed. Store conditions shall be in accordance with national regulations.

### Shelf Life:

12 Months from date of production.

### Standard Compliance

Ultra PU Flex confirm to ASTM C920-98 type S or M for Elastomeric Joint Sealant.

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