

# CHEMSEAL – PU- 600

## Universal 1- Component Polyurethane Sealant

**CHEMSEAL –PU-600** is a general purpose one component. Polyurethane sealant which cure by moisture to an elastic and through sealant. It is highly resilient and has excellent recovery characteristics. It can function under wide range of temperatures.

### PRODUCT DESCRIPTION:

**Composition:** polyurethane base joint sealant.

**Basic Uses:** For sealing movement joints in precast concrete construction, balcony parapets, bridge culverts, retaining walls etc. for caulking of joints around windows, doors, skirting, wall/floor joint and shutter housings.

### ADVANTAGES:

- Easy to use, being one component system. Excellent adhesion to different construction materials.
- Excellent resistance to different chemicals and micro organisms.
- Excellent weathering and aging properties.
- Can be over painted after curing.
- Remains elastic even in cold weather.

### COLORS:

Dark grey, White ,Beige, Black and other colors available on request.

### PACKING:

600ml aluminium sausages.

### STANDARD:

The product complies with ASTM C 920 (Type S, Grade Ns, Use NT. Use- A ,M,O).U.S Federal Specification TT-S-00230 Type II Class A Non Sag & BS 6920.

### TECHNICAL DATA:

#### Movement

<b>Accommodation factor</b>	: 25%
<b>Hardness (shore A)</b>	: 30-40
<b>Service Temperature</b>	: -40°C up to 90 °C,
<b>Application Temperature</b>	: -5°C up to 40 °C,
<b>Sag Resistance</b>	: Excellent
<b>Skinning Time</b>	: 2-4 hrs @ 25°C & 55% RH
<b>Cure Rate</b>	: Approx .2-3 mm/day
<b>Elongation at break</b>	: >100% ASTM D4 12
<b>Tensile strength</b>	: at 100% elongation:1.
<b>N/mm<sup>2</sup> : at Break</b>	1.5N/mm <sup>2</sup> ASTM D4 12
<b>Resilience</b>	: 90%
<b>Toxicity</b>	:No restriction as cured
<b>Shelf life</b>	: 12 months

### INSTALLATION:

**Surface preparation:** all joints must be absolutely clean. For concrete, sandblasting is recommended.

All curing compounds, old caulks, grease, waterproofing compounds etc, must be removed. For nonporous surfaces such as glass, metal etc., cleaning with M.E.K or Toluene is recommended. Polyurethane rod or polyurethane foam is recommended as a joint filler and back –up material. Fillers treated with bituminous products, grease or oil should not be used. Where present they must be removed or separated by vinyl 1 tape or polyethylene film. Porous surfaces shall be primed with Chem PU Primer.

**Application:** Apply by caulking gun , hand or pressure type bulk sealant can be applied by pumping equipment. Press firmly into joint to assure good contact and finish with a trowel or putty knife.

### AVAILABILITY:

**CHEMSEAL PU-600** is supplied through building material dealers. Major contractors are supplied directly from Construction Material Chemical Industries.

### MAINTENANCE:

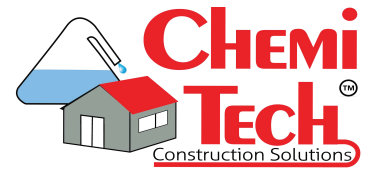
If **CHEMSEAL PU-600** is damaged and the joint has not been contaminated it can be repaired by cutting out that part and resealing it with **CHEMSEAL PU-600**.

### PRECAUTION & LIMITATIONS:

- Don't apply to joints subjected to continuous water immersion.
- Its suggested to do pre-testing for adhesion and substrate compatibility to determine the correct surface preparation method and to eliminate site problems.
- As commercially available paints are of varying quality, it is suggested to do a compatibility test prior to application.
- Store **CHEMSEAL PU-600** out of date sunlight. Store in door at 25° C.
- Avoid contact with skin and eyes.

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## ESTIMATION:

Depth of joint MM	WIDTH OF JOINT						
	6	9	12	15	18	22	25
6	17	11	8	7	6	5	4
9	11	7	6	4.4	3.7	3	2.7
12	8	6	4.2	3.3	2.8	2.3	2
15	7	4.4	3.3	2.7	2.2	1.8	-
18	6	3.7	2.8	2.2	1.9	-	-
22	5	3	2.3	1.8	-	-	-
25	4	2.7	2	-	-	-	-

Linear meters per pack (approx)

