

# POWER PU SEALANT



## PRODUCT DESCRIPTION

POWER PU SEALANT is a low modulus, one component, Class a Polyurethane sealant. When cured it will form a tough, flexible seal capable of cyclic expansion and compression movement of 50 % (+25%) of the original joint width. POWER PU SEALANT is virtually unaffected by normal weathering conditions such as rain, sunlight, snow, sleet, ultra-violet radiation, ozone, atmospheric contamination and pollution. Its excellent weather ability enables it to retain its original properties after years of exposure, refer to the CSIRO RILEM long-term sealant durability study DBCE Doc. 97/196 (M).

## FEATURES & BENEFITS

- Low modulus 50 % (+25%)
- Excellent durability
- One component, no mixing required
- Australian made
- Color range
- Acoustic rating
- Paintable (refer limitations)
- Non staining APPROVALS AND STANDARDS
- CSIRO RILEM LONG - TERM SEALANT DURABILITY STUDY DBCE Doc. 97/196 (M)
- ISO 11600-Class F-25LM
- DIN 18540 (German) and SNJF (French) approval as a low Modulus external joint sealant
- ASTM C.920-87 & 98 (USA) as Type S, Grade NS, Class 25, use NT, G, A, M, & O as an external joint sealant.
- AS4020 1992 Potable water
- AS1157-1972 Resistance to fungal growth Ministry of Agriculture and fisheries New Zealand
- (Meat, fish, Game, Poultry- All areas)

## TECHNICAL DATA SHEET

### PERFORMANCE PROPERTIES

Typical properties after seven days cure at 25°C and 50%RH.

## RECOMMENDED USES

- Sealing joints in:
- Insitu concrete
- Precast and tilt up panels
- Brick & block work
- Plasterboard
- Aluminum windows
- Granite, sandstone and marble
- GRC, Fiberglass & Specialty panel systems
- Metal curtain wall
- Water tanks\

## PACKAGING

POWER PU SEALANT is supplied in 600ml sausages, 20 per carton.

### COVERAGE

The coverage below is the approximate lineal meter coverage per pack size. Calculation formula  $W \times D \times L =$  Ltrs. 1000  $W =$  Width (mm)  $D =$  Depth (mm)  $L =$  Length (meters)

## POWER PU SEALANT

Appearance Non-sag smooths thixotropic paste cure Method Moisture Curing track free time 6-12 hours rate of cure in mm/24h 2 hardness shore A 30 approx. tensile strength > 1.3 N/mm<sup>2</sup> chemical resistance Resistant to dilute acids, alkalis & some solvents. Intermittent contact with diesel and petroleum. elongation at break >900% application Temperature 5°C to 35°C temperature resistance -40°C to +70°C full cure 7 days on porous substrates

## POLYURETHANE CONSTRUCTION

### JOIN SEALANT

#### PRECAUTION

- ULTRA PU SEALANT should not be;
- Applied to cement based substrates within 28 days
  - Used in trafficable joints greater than 10mm in width
  - Applied at temperatures below 5°C.

## PAINTABILITY

POWER PU SEALANT can 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 POWER PU SEALANT (refer PATS).

## P.A.T.S (Pretested Adhesion to Substrate)

POWER offers a service to eliminate potential field problems by pretesting ULTRA sealants for adhesion with samples of substrates and or coatings to be applied. Consult a POWER representative for further information.

## HEALTH AND SAFETY

- On contact, uncured sealant causes irritation. Gloves and protective goggles should be worn
- during application and use.
- Avoid contact with skin, eyes and avoid breathing in vapour.
- If poisoning occurs, contact a doctor or Poisons Information centre.
- If swallowed, do not induce vomiting. Give a glass of water.
- If skin contact occurs, remove contaminated clothing and wash skin thoroughly for a minimum of 15 minutes and see a doctor.
- For more detailed information refer to Material Safety Data Sheet.

## CLEAN UP

Clean up uncured material and equipment immediately after use using Power Solvent. Do not use solvents on skin.

## STORAGE

Store between 5°C and 30°C. Shelf life is two years in original unopened cartridge or sausage.



## APPLICATION INSTRUCTIONS

### Preparation:

Clean and dry all surfaces 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

For maximum performance on porous surfaces and in all immersed applications use Power Primer 60 Recommended for non-porous surfaces. Prior to any application of Seal 'POWER PU SEALANT refer to primer selection guide.

### APPLICATION

POWER PU SEALANT should be dispensed from either the cartridge or sausage by means of a caulking gun (available from POWER 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 APOWER applicator 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 POWER PU SEALANT in a continuous bead using enough pressure to properly fill the joint.

### JOINT SEALING HINTS

- 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
- 12mm to 50mm
- Tool sealant to achieve concave shape

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### MIXING

No mixing is required for POWER PU SEALANT