



# Engineer Plus PSS-99

## Polysulphide Sealant

### Description

- Engineer Plus PSS-99 is a two part elastomeric sealant which when mixed and applied cures by chemical reaction to form a tough, flexible rubber seal. It is recommended for sealing construction and expansion joints.

### Typical Applications

- Internal and external wall cladding.
- Structural concrete.
- Water retaining structures such as dams, canals and culverts.
- Brick and blockwork.
- High rise structures.

### Features & Benefits

- Gun grade suitable for vertical joints.
- Highly elastic.
- Excellent adhesion to a wide range of construction materials.
- Accommodates continuous and pronounced cyclic movement.
- Non shrink.
- UV resistant.
- Chemical resistant.
- Non-toxic.

### Method of Application

- **1 SURFACE PREPARATION**
  - Joint surfaces must be sound thoroughly clean and dry and free from grease, oil any other contamination. All dust and debris must be removed by wire brushing, grinding and vacuuming. Damaged joints should be repaired first using a suitable mortar from the Engineer Plus range.
  - Ensure that the filler material such as closed cell polyethylene sheet or rod is tightly packed and no gaps or voids are evident at the base of the joint. Where backing rod is not fitted a bond breaker tape must be used.
  - Fix masking tape on both sides of joint surface to provide a neat appearance and ensure the tape is removed immediately after tooling.
- **2 PRIMING**
  - Prime, avoiding ponding at the base of the joint, with Engineer Plus Aquaprime-99 A by brush. Particularly porous surfaces should be primed twice. Apply the second coat of primer when the first is tack free but within 3 hours. Sealants should be applied as soon as the primer is touch dry and within 8 hours. If this time is exceeded a fresh coat of primer should be applied.
- **3 MIXING**
  - Add curing agent to resin and mix thoroughly with a slow speed electric mixer (300 – 450 rpm) for approx. 2-3 minutes until a homogenous and uniformly grey coloured material is obtained.

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- **4 APPLICATION**
  - Engineer Plus PSS-99 is a thixotropic material, after mixing it can be applied directly by spatula or via a sealant gun.
- **5 FINISHING**
  - Tool PSS-99 sealant immediately with tooling knife if necessary to ensure 100% contact with both surfaces.
- **6 CLEANING**
  - After sealing the joint the tools and equipment should be cleaned immediately.
- **7 CURING**
  - Allow sealant to cure for 7 days before carrying out any testing. Protect the joints from water for at least 24 hours and chemicals for 7 days.
- **Note:**
  - Maximum joint width is 50 mm.
  - Do not expose the sealant to high temperatures.
  - Do not use in direct contact with materials containing pitch or bitumen.
  - Over painting of sealants is not recommended, due to flexibility differential. If required however always carry out site trials to determine compatibility.

## Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Form		Two Component Paste
Colour		Grey
Solids Content		100%
Density		1.56 kg/litre
Physical/Chemical Change		Chemical cure
Hardness Shore 'A' @ 25C		23 - 26
Application Temperature		10oC to 50oC
Service Temperature		- 20C to 80C
Cure Time		2 weeks @ 15C 1 week @ 25C



## Engineer Plus PSS-99

### Polysulphide Sealant

#### Storage

- When stored in dry conditions out of sunlight in original unopened packaging this product has a shelf life of 12 months. Storage above 35°C will reduce shelf life and product performance.

#### PACKING



1KG

#### Head Office

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