Flexseal PP800

Elastomeric high performance cold applied fuel resistant pavement joint sealant (Formerly known as Aylaseal 800)

DESCRIPTION

Flexseal PP800 is a two component, chemical curing, cold applied, fuel and oil resistant pitch polyurethane sealant designed for use in all types of concrete pavement joints and has excellent adhesion properties to asphalt substrates.

Flexseal PP800 is also available in a fast curing grade, called Flexseal PP800F.

APPLICATIONS

- For sealing all types of joints in airport runways and aprons.
- For sealing all types of joints in car parks, and traffic decks.
- For sealing of all types of joints in warehouses, oil terminals, docks and harbours.
- For sealing all types of joints in sewage treatment plants.
- Suitable for horizontal joints only.

ADVANTAGES

- Cold applied, chemical curing sealant.
- Suitable for all climate conditions, weathering and UV resistant.
- Fuel and oil resistant.
- Excellent movement accommodation in butt and lap joints.
- Pourable and self-leveling.
- Good chemical resistance to a wide range of mild alkalis, diluted acids and solvents.

STANDARDS

Flexseal PP800 complies with:

- British standard 5212:1990, Type N, F and FB.
- US Federal Specification SS-S-200E:1984 as Type H sealant*.

**Modified temperature of fuel immersion at 25°C.*

- ASTM C920*, Type M, Grade P, Class 25, Use NT, T_2 & M.

**Except for stain test.*

TECHNICAL PROPERTIES:

Mixed density:	1.35 ± 0.05 g/cm³
Solid content:	100%
Pot life:	60 - 120 min @ 25°C
Application temperature:	5 to 50°C
Service temperature:	-20 to 90°C
Shore A hardness: ASTM D2240	25 ± 5
Movement accommodation:	25% for butt joints 50% for lap joints
Elongation at break: ASTM D412, Die C	≥ 350%
Tensile strength: ASTM D412, Die C	≥ 1.4 MPa
Curing type:	Chemical cure
Tack free time: ASTM C679	< 5 - 6 hr @ 25°C
VOC: ASTM D2369	< 80 g/ltr

Note: The material can be still tacky for longer periods at low temperatures and low humidity

METHOD OF USE

SUBSTRATE PREPARATION

All surfaces should be clean of dirt, laitance, foreign matter and curing compounds. After cleaning, a backing rod of an appropriate size should be placed in the joint to the required depth. Care should be taken not to puncture the backing rod during installation as punctures might create bubbling.

PRIMING

Flexprime Universal is a low viscosity single component primer suitable for use with porous and non-porous surfaces. Flexprime Universal is recommended to be used for concrete substrates.

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For applications where Flexseal PP800 is used as a bolt sealer in rubber expansion joints made of synthetic rubber such as chloroprene, neoprene or EPDM rubber, Flexprime Universal must be used to ensure optimum adhesion.

Using small brush apply one thin coat at the joint sides and avoid over priming. Apply the mixed Flexseal PP800 sealant while primer is still tacky to achieve optimum adhesion strength.

For asphalt substrates, it is recommended to use Flexprime WD primer to ensure optimum adhesion. Depending on the substrate porosity, apply one or two coats of Flexprime WD at the joint sides using a small brush or roller and allow to become tack free.

Apply the mixed Flexseal PP800 sealant once the primer is tack free and set while not exceeding 24 hours after applying the primer at normal conditions.

MIXING

To ensure proper mixing, a mechanically powered mixer or drill fitted with a suitable paddle should be used. Flexseal PP800 is supplied in two components, Part A and Part B.

The full quantity of the two components must be mixed thoroughly for 3 - 5 minutes.

PLACING AND FINISHING

The mixed sealant should be applied directly into the primed joints.

Sealant must be filled with a minimum recess of 6 mm as insufficient recess can expose the sealant to vehicle tyres which might cause damage over time.

CLEANING

All equipment should be cleaned immediately after finishing using an appropriate solvent. Hardened sealants should be removed mechanically.

PACKAGING

Flexseal PP800 is available in 5.2 kg (4 litre) & 23.4 kg (18 litre) packs.
Flexprime Universal is available in 1 litre, 4 litre and 15 litre packs.

CHEMICAL RESISTANCE *(Repeated spillage)*	
Brake Fluid	Resistant
Jet Fuel	Resistant
Diesel	Resistant
Kerosene	Resistant
White Spirit	Resistant
Petrol	Resistant
Xylene	Resistant
Olic Acid	Resistant
Hydraulic Oils	Resistant
Dilute Acids	Resistant
Mineral Oils	Resistant

SEALANT QUANTITY ESTIMATOR

Joint size mm	Meters per litre
10 x 10	10.00
13 x 13	5.91
15 x 15	4.44
20 x 10	5.00
20 x 20	2.50
25 x 12	3.33
25 x 25	1.60
30 x 15	2.22
40 x 20	1.25
50 x 25	0.80

Flexprime Universal:
500 ml of Flexprime Universal will be sufficient for a joint length of approximately 125 m.

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JOINT SIZE SUITABILITY

Joint width:
- Minimum 6 mm.
- Maximum 50 mm (maximum in trafficked areas).

Joint depth:
- Minimum 10 mm.
- Maximum 25 mm.

Width: Depth Ratio
- 2:1 butt joints.
- 1:1 lap Joints.

STORAGE

Flexseal PP800 has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 35°C.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Flexseal PP800 contains coal tar pitch and isocyanates. Avoid contact with skin and eye. Gloves should be worn and the use of barrier cream is highly recommended.

If Flexseal PP800 comes into contact the eyes, flush with copious amounts of cold water and obtain medical attention.

For further information, refer to the Safety Data Sheet.

FIRE

Flexprime Universal is flammable.
Ensure adequate ventilation. Do not use near a naked flame and do not smoke during use.

Flash point:
Flexprime Universal: 37°C.

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