

Conflex® PS

2 COMPONENT, GUN & POURING GRADE, POLYSULPHIDE SEALANT

DESCRIPTION

A two part polysulphide which cures to form a resilient elastic seal. Exhibits excellent adhesion to most surfaces.

USES & ADVANTAGES

Typical applications include sealing movement joints in buildings and civil engineering structures, including floors in factories, hardstands, taxiways, basements, subways, reservoirs, bridge decks, water treatment structures, sea walls, ports and industrial complexes.

Advantages include:-

- Cures to produce a tough sealant.
- Excellent adhesion to substrates.
- Overpaintable by most paint.
- Meets requirements of most international standards.
- Good ageing resistance.
- Can be used in immersed conditions.
- Permanently flexible.
- Can use in potable water.
- Non staining.
- Formaldehyde free.

PROPERTIES

Base Polymer:	Polysulphide
Colour:	Grey (other colours available on request)
Specific Gravity:	1.60 ± 0.05
Shore 'A' Hardness:	25
Shrinkage:	Negligible
Tensile Strength, (Psi):	> 50
Elongation:	> 300%
Application Temperature:	+5°C to 50°C
Pot Life:	Min 2 hrs. at 20°C
Service Temperature:	-20°C to +90°C
Cure Time:	7 days at 20°C
Water Resistance:	Excellent
Chemical Resistance:	Excellent
Flammability:	Cured sealant does not readily ignite.
U.V. Resistance:	Good
Movement Accommodation Factor:	(Butt) 25%, (Lap) 50%

Standards: Complies to the following standards :

- British standard 4254 : 1993 -ISO 11600.1993
 - British standard 5212 : 1990
 - BS 6920-1988
 - US Federal specification TT-S-00227E, TT00230-C, November 1969 (amended 1970)
 - ASTM C920 : Type M Grade NS. Class 25 Grade P & NS
 - DIN 18540
 - Chemical Resistance to Occasional Spillage:
- | | |
|----------------------|-----------|
| Petrol | Resistant |
| Diesel fuel | Resistant |
| Aviation fuel | Resistant |
| Skydrol | Resistant |

White Spirit	Resistant
Kerosene	Resistant
Dilute Acids	Resistant
Dilute Alkalis	Resistant
Aromatic Solvents	Resistant
Hydraulic Fluid	Resistant
Solvents Hydrocarbon	Resistant
Dilute Oxidising Acids Not	Resistant

For other chemicals consult Cormix International Technical Service Department

SURFACE PREPARATION

All surfaces should be sound, clean and dry, free from dust, oil, grease or other contamination. Loose matter should be removed by abrasion if necessary finally removing the dust with a dry brush. Masking tape may be used to ensure a neat edge to the seal and protect substrates from which the removal of sealant is difficult. It should be applied before priming and be removed after tooling and before the sealant starts to cure. A suitable back-up material (approx. 30% oversize) should be placed into the joint to the required depth. Closed cell polyethylene foam, **Conflex Cell**, is normally used as it also acts as a bond breaker, ensuring that the sealant bonds only to the sides of the joint. If a rectangular section is used ensure that it does not twist, thus changing the configuration of the joint.

PRIMING

All joint substrates must be clean and dry before priming. Prime with **Conflex PS Primer**. For unusual substrates consult Cormix International Technical Service Department.

APPLICATION

The entire contents of the packaging containing Part 'B' should be added to Part 'A', and mixed using an electric drill with a stirrer at a maximum speed of 400 rpm., until fully dispersed, taking care to prevent unmixed material remaining on the sides or bottom of the container. Ensure that all substrates and primers are dry prior to the application of sealant. The gun or cartridges are loaded by laying the pressure plate on top of the mixed sealant, placing the open end of the barrel (or cartridge) over the hole in the plate and applying a steady downward pressure.

The sealant is then applied using a closed barrel gun or with cartridges in a skeleton gun. Maintain an even pressure on the trigger and move the nozzle of the gun along the joint at an even pace. Select a tool to suit the width of the joint and wet it with clean water containing a little detergent. Working upwards in the case of vertical joints, lightly tool the sealant into the joint. This will improve adhesion, reduce air content and enhance the appearance of the finished joint.

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JOINT DESIGN

Laboratory tests show that in butt joints an optimum performance is achieved when

Width : Depth = 2 : 1 Wider joints may require more applications, allowing the sealant to cure slightly between applications.

If the joint is not deep enough to accommodate the foam backing strip, a self-adhesive polyethylene tape should be used to ensure that the sealant bonds only to the sides of the joint.

When used as a triangular fillet there should be at least 6 mm. cover on each substrate and the fillet should be a regular triangle in cross-section.

Joint widths may vary from a minimum of 5 mm to 50 mm wide.

Minimum sealant depth recommended:

- 5 mm for metals, glass and other impervious surfaces.
- 10 mm for all porous surfaces.
- 20 mm for joints exposed to traffic and hydrostatic pressures.
- 5 mm below flush for joints exposed to traffic.

The use of surface primer is recommended on porous surfaces. On non-porous surfaces a primer is not normally required except where glass or glazed surfaces are to be permanently immersed in water

COVERAGE

The number of sets required can be determined by using the formula:

$$\frac{\text{Cross - section of seal (mm}^2\text{) x Length (m)}}{\text{set size}} = \text{No. of sets}$$

(Note that no allowance has been made for wastage.)

CLEANING

Remove excess material with a cloth and then clean with solvent.

PACKAGING

Conflex PS : 2.5 or 4 litre packs in metal cans.

The base is packed in a can and curing agent in the lid of the same package.

Conflex PS Primer : 2 litre tins.

STORAGE & SHELF LIFE

Conflex PS should be kept dry between +5°C and 25°C.

The shelf life is 12 months if kept at 25°C.

HEALTH & SAFETY

During use avoid inhalation of dust & contact with skin & eyes. Wear protective clothing. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately - **DO NOT** induce vomiting.

TECHNICAL SERVICE

The Cormix International Technical Service Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

QUALITY ASSURANCE

ISO 9001 : 2015 verified by TUV Nord.

ISO 14001 : 2015 verified by Lloyd's Register International.

DISCLAIMER

Performance data is achieved testing in accordance with International Standards. Testing by others may result in different results from those published as a result of external factors such as poor sampling, incorrect mixing, varying temperatures, curing, crushing procedures etc. Cormix does not take responsibility nor need to defend others testing that does not achieve the published data. The user must test the products suitability for the intended application and purpose. Cormix reserves the right to change the properties of the product. Site conditions and differences in materials are such that no warranty or fitness for a particular purpose, nor liability can be inferred from the published data sheet, written recommendations or from other advice offered.

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