

# FAIRSEAL P

Pourable grade two part polysulphide sealant

## BENEFITS

- Excellent weathering characteristics with resistance to rain, snow, heat & ultraviolet light
- It gets cured quickly with low shrinkage
- Accommodates continuous and pronounced cyclic movement
- Excellent adhesion to most common substrates
- High resistance to ageing influences, physical damage and climatic extremes
- Resistance to petrol, diesel, jet fuel and most other common solvents & also unaffected by mild acids and alkalies
- Forms a tough elastic rubber-like seal
- Pourable grade sealant for horizontal joints
- Long service life
- Maintenance free

## PRODUCT

**FAIRSEAL P** is a pourable grade two part polysulphide sealant conforming to BS 5212 : 1990, BS 4254 : 1983 & IS 12118 (Part 1 & 2) : 1987, IRMRA certification ASTM C 920-87, Type M, grade P, Class 25.

## USES

**FAIRSEAL P** is suitable for sealing horizontal structural expansion joint structures like building superstructures, subways, basements, PQC roads, floors, airport runways and reservoirs.

## DESCRIPTION

**FAIRSEAL P** is a two part, pourable, self leveling, polysulphide based joint sealing compound consisting of base compound containing a liquid polysulphide polymer and second part being an accelerator containing a curing agent. After mixing, the compound cures to form a tough, rubber like material with excellent flexibility and outstanding resistance to weathering water, salts, oils, mild alkalis etc.

**FAIRSEAL P** is suitable for sealing horizontal joints due to its pouring consistency.

**FAIRSEAL P** has excellent adhesion to most surfaces including concrete, wood, glass, aluminum and stainless steel. For all porous surfaces like concrete wood, **FAIRSEAL PRIMER** is necessary.

**Joint size:** **FAIRSEAL P** may be applied to joints between

5 and 50mm width. Minimum 5mm. depth is recommended for metals, glass and other smooth surfaces while minimum 10mm depth is recommended for concrete and brickwork surfaces. The use of a greater depth is recommended where resistance to external pressure is required, e.g. joints in floors and hydraulic structures. Ideally joints subject to regular movement should be designed with a width/depth ratio of 2:1.

## PROPERTIES

|                                |                                                     |
|--------------------------------|-----------------------------------------------------|
| Form                           | Two-part<br>(Base + Hardener = Paste)               |
| Physical Appearance            | Grey Color Paste (mixed)                            |
| Specific Gravity               | 1.6 to 1.65 kg/litre                                |
| Pot Life@30°C                  | ~60 Minute                                          |
| Full Cure                      | 4 weeks at 5°C<br>2 weeks at 15°C<br>1 week at 25°C |
| Flammability                   | Flammability burns but does not readily ignite.     |
| Temp. range during application | 5°C to 45°C                                         |
| Hardness                       | 15-20 Shore A                                       |
| Movement accommodation         | 25% butt joints<br><br>50% lap joints               |

## APPLICATION

**Surface Preparation:** All joint surfaces should be thoroughly cleaned and dried and primed with ' **FAIRSEAL PRIMER**'. Loose particles, dirt, dust, protective liquor, oil and grease should be removed by vigorous brushing with a wire brush and by means of suitable cleaners e.g. KEROSENE. After the primer is applied, it has to be relatively dried before sealant is applied. Deep joints should be back filled with a non retting backup material to which the sealant does not adhere eg. Closed cell polyurethane foam, which should be tampered into the joint to the required depth.

**Application:** **FAIRSEAL P** sealant is supplied in a pack with base and hardener (curing agent) in separate packing, ready for mixing. In order to mix both the compounds thoroughly it is preferable to use a slow speed electric mixer with suitable blades or paddles with a speed less than 300

# FAIRSEAL P

RPM. Ensure thorough mixing till a uniform color is obtained. Failure of the sealant will often occur if it is not completely and thoroughly mixed. After mixing **FAIRSEAL P** may be poured directly into horizontal joints or loaded into the gun for application to horizontal joints less than 15mm wide.

**Tooling & Finishing** : To obtain a smooth surface, the sealant has to be tooled by drawing a flat tool, like a stainless steel spatula, over its surface. After sealing, the tools and equipments must be cleaned with SAFECORE TOOL CLEAN .

## PACKING

**FAIRSEAL P** is available in big packing of (4.600 kg base + 0.400 kg hardener) and small packing of (0.920 kg base + 0.080 kg hardener).

## SHELF LIFE & STORAGE

**FAIRSEAL P** will have a shelf life of **12 months** in unopened containers when kept in dry conditions at a temperature between 5°C to 35°C. Material must be kept under shaded area and away from direct sunlight. Storage at higher temperature or high humidity may reduce shelf life.

## ESTIMATION OF QUANTITY

To estimate quantities of sealant required, the formula given below can be used to calculate the number of (1 Kg or 5 Kg) tins needed. To calculate the weight (in Kg.) of sealant required for a joint of particular length (in meters), the following formula can be used :

|                     |                                                                                |
|---------------------|--------------------------------------------------------------------------------|
| Formula             | Weight in Kg (1.6 X W X D X L)/1000<br>Where W & D are in mm and L is in metre |
| Example             |                                                                                |
| W (Width of joint)  | 10 mm                                                                          |
| D (Depth of joint)  | 10 mm                                                                          |
| L (Length of joint) | 12.5 mtr                                                                       |
| Weight in Kg        | (1.6 X 10 X 10 X 12.5) / 1000<br>2.00 Kg of sealant                            |

1 Litre of **FAIRSEAL Primer** would cover 6 to 7 m<sup>2</sup> of joint area or about 1 litre of **FAIRSEAL Primer** would be required for 30 Kg of **CHEMSEAL** sealant.

## HEALTH & SAFETY

**FAIRSEAL P** is highly inflammable and it must be stored away from heat. The curing agent contains a heavy metal oxide, contact with the skin should be avoided. Hands should always be washed thoroughly before eating or smoking.

## SPECIFICATION

Providing & applying **FAIRSEAL P** polysulphide sealant manufactured under compliance of ISO 9001, ISO 14001 & ISO 45001 (Occupational Health and Safety) certified by ISOQAR / UK. It is a two part pourable grade sealant for sealing horizontal structural expansion construction joints of width 5 to 50mm between structures in building construction. It has Specific Gravity: 1.6 to 1.65 kg/ litre, Hardness: 15-20 shore A, Pot Life@30°C: ~60 Minute, applied in accordance with the guideline of CHEMCORE.

## QUALITY ASSURANCE

Fairmate manufactures entire range of construction chemicals under compliance of ISO 9001, ISO 14001 & ISO 45001 (Occupational Health and Safety) certified by ISOQAR / UK.

## TECHNICAL SERVICES

While new advances and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our quality control laboratory and technical experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.



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