

## Two part cold applied elastomeric polysulphide jet fuel resistant joint sealant for concrete pavements

### PRODUCT

**weber seal PS 2000 JF** is a self-leveling jet fuel resistant joint sealant based on liquid polysulphide polymer. When mixed and applied, it cures to form a tough, flexible tear-resistant rubber like seal with excellent adhesion to primed concrete, masonry, glass, aluminum and stainless steel substrates.

**weber seal PS 2000 JF** is highly resilient and has excellent recovery characteristics of withstanding repeated extension, compression and cyclic movements without loss of adhesion and resists deterioration by weathering, sunlight, ozone, water, salt, oil and fuels.

**weber seal PS 2000 JF** is a pouring grade sealant used for sealing of horizontal joints.

### SCOPE OF USE

**weber seal PS 2000 JF** is ideal for sealing joints in reinforced concrete structures which may be subject to fuel spillage and jet blast such as plane parking areas, airfield runways, aprons, roads, bridges, pavements and taxiways...

### FEATURES / ADVANTAGES

- Designed to form a tough rubber like seal.
- Capable of accommodating continuous and pronounced cyclic movement (+/- 25% MAF)
- Excellent bonding to concrete.
- Resistant to jet fuels, lubricating oils and hydrocarbon.
- Flame and Jet blast Resistant
- Zero VOC

### CHARACTERISTICS

Appearance	Polysulphide rubber
Form	Multi-component, sealing compound
Color	Grey
Density	1.48 - 1.54 kg/liter
Physical/Chemical change	Chemical cure
Hardness Shore 'A' @25°C	16 - 24
Movement accommodation factor	± 25%
Application temperature	5 °C - 50°C
Pot life @25°C	2 hours at 25°C 1 hour at 35°C
Setting time	36 hours at 15°C 16 hours at 25°C 12 hours at 35°C
Cure time	2 weeks at 15°C 1 week at 25°C 4 days at 35°C



### PACKAGING

Leb	Syria	Jordan	UAE	Qatar	Kuwait	KSA	Oman
4 Lit	4 Lit	4 Lit	4 Lit	4 Lit	4 Lit	4 Lit	4 Lit

Water immersion

**weber seal PS 2000 JF** must be fully cured before permanent immersion in water

### APPLICABLE STANDARDS

**weber seal PS 2000 JF** conforms to ASTM D 412, British Standard BS 5212 and British Standard BS 4257.

### YIELD

Joint size in mm	Ltrs per RM*	RM* per 4 liter pack
5x5	0.025	160.00
5x10	0.050	80.00
10x5	0.050	80.00
10x10	0.100	40.00
20x10	0.200	20.00
20x15	0.300	13.33
20x20	0.400	10.00
40x20	0.800	5.00
40x25	1.000	4.00
40x30	1.200	3.33
40x40	1.600	2.50
50x25	1.250	3.20
50x30	1.500	2.66
50x40	2.000	2.00
50x50	2.500	1.60

Above estimations have not allowed for wastage.

## INSTRUCTIONS FOR USE

### SURFACE PREPARATION OF JOINT

The joint surfaces must be thoroughly dry, clean and dust free.

All dust and laitance must be removed by wire brushing, grinding or grit blasting. All metal surfaces must be free of all rust, scale and protective lacquers.

Use a suitable solvent to remove any traces of oil or grease.

### MASKING TAPE

For a neat joint, protect it by fixing masking tape to prevent those areas from being overfilled. The masking tape should be removed immediately after placing the sealant.

**NB: The use of a bond breaker tape is not required in expansion joints containing polyethylene foam joint fillers.**

### PRIMER

Apply one coat of **weber seal prime PS** by brush, to the bonding faces of the joint ensuring a uniform application. Whenever excess porosity is encountered an additional coat is recommended. Allow the primer to become touch dry, before proceeding with the application of **weber seal PS 2000 JF**. Avoid excess priming to eliminate chances of primer ponding at the base of the joint.

Any primed areas not sealed within 8 hours of primer application, should be re-primed one hour prior to the sealant application.

**Note: Apply weber seal PS 2000 JF only when the primed surface is tack free, which is after the solvent has evaporated but prior to the primer film having reacted completely.**

### BACK UP MATERIAL

The back-up material is used to adjust the joint depth to width ratio.

The back-up material shall be compatible with sealant and of a resilient nature e.g. closed cell polyethylene back up rod.

### MIXING OF A SEALANT

**weber seal PS 2000 JF** is a Pouring Grade Sealant supplied in two separate containers: base compound and curing agent. Transfer the curing agent to the base compound container's in its entirety. Mix both components together with a mixer / slow speed drill until obtention of a homogenous and a uniform paste.

This will ensure full cure of the compound.

The paddle blade must be kept below the sealant's surface to avoid introducing air into the sealant and following the mixing operation the sealant may be poured directly into horizontal joints.

## DESIGN CRITERIA AND APPLICATION

**weber seal PS 2000 JF** is an elastomeric sealant and may be applied to joints between 5 and 50 mm wide. Joints which are expected to experience cyclic movements should be designed to an optimum width: depth ratio of 2:1, subject to the overriding recommended minimum sealant depths set out below:

- 5 mm for metals, glass and other non-porous surfaces
- 10 mm for all porous surfaces
- 20 mm for trafficked joints and those subject to hydrostatic pressures

To ensure that the sealant remains within its stated movement capacity ( $\pm 2$  5% MAF); sealing slot widths should be designed in accordance with the recommendations of BS 6093.

### Important notice

**weber seal PS 2000 JF** should not be used in direct contact with materials containing pitch or bitumen.

### EXPANSION JOINT

Allow the sealant to cure to a specified curing period.

### CLEANING OF TOOLS AND HANDS

Clean the tools immediately after applications by xylene, toluene or acetone solvent. Hands can be cleaned using kerosene and soap solution.

### STORAGE

One year. Store the material in its unopened containers in a cold and dry place.

### SAFETY PRECAUTIONS

Application should be done in a ventilated area away from any heat source. Wear protective gear for hands and eyes and avoid breathing of vapor. If mixed resin comes into contact with the skin, it should be promptly removed before hardening, followed by thoroughly washing the skin with soap and water. In case of heavy vapor inhalation, place affected person in an open-air area. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting. In all cases, seek medical attention. In case of fire, use CO<sub>2</sub> foam to extinguish. Tightly seal containers when not in use, store them away from heat and carefully dispose empty ones.

### DISCLAIMER

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