



8.05 FAST FR SEALANT

Elastomeric Fuel Resistant Joint Sealant

PRODUCT DESCRIPTION

FAST FR SEALANT supplied as a single component liquid polymer is heated in an approved oil-jacketed extruder prior to extrusion into prepared joints. When using FAST FR SEALANT through the extruder, outstanding daily application rates can be achieved.

BENEFITS

- Highly resistant to weathering, will not flow, bubble or blister at high temperatures.
- Maintains resilient, rubber like properties at sub-zero temperatures.
- Outstanding resistance to petrol, oil and jet fuel spillage.
- High productivity from extruder minimizes contract period.
- Resistant to jet blast and penetration from stones and hard debris.
- Self-leveling; produces uniform, neat joints.
- In excess of 20 years proven performance.

RECOMMENDATIONS

FAST FR SEALANT is recommended for use in sealing joints in concrete pavements on roads, airfield aprons, runways and taxiways, cargo terminals, warehouse parking areas and service roads.

SPECIFICATION

Where so designated on the drawing, joints are to be sealed using FAST FR SEALANT elastomeric fuel resistant joint sealant. FAST FR SEALANT shall comply with the requirements of ASTM D3569-85, ASTM D3406-85, BS2499 164 and

DTp specification for highway works 1986 clause 1016.

DESIGN CRITERIA

Joints should be designed so that total movement in the width of the joint due to concrete shrinkage and thermal change does not exceed the 25% movement accommodation factor, expressed as a percentage of the joint width.

Typical examples are identified as follows:

Joint width (mm)	Sealant depth (mm)
9 (min) - 12	As width + 3
13 - 15	15
16 - 25	As width
26 - 40 (max)	25 (max)

All joints should be sealed typically 5 mm below flush, however, this should be varied dependent upon the time of the year (i.e. ambient temperature) in which the application takes place, this is to ensure that the sealant does not protrude above the surface on joint contraction. New concrete should be allowed to dry for at least 14 days prior to the application of FAST FR SEALANT.

TECHNICAL INFORMATION

PROPERTIES

Specific gravity	: 1.26
Movement accommodation factor	: 25%
Resilience (ASTM D3569)	: 65 - 75%
(ASTM D7116-05)	: >60%
Service temperature range	: -20°C to 70°C
Instructions for use	

Shelf Life: 12 months if stored in the original unopened containers in a cool dry place. Do not store in direct sunlight.



Coverage

FAST FR SEALANT: Number of liters required =
$$\frac{\text{Joint width (mm)} \times \text{sealant depth (mm)} \times \text{joint length (m)}}{1000}$$

A further amount should be allowed for possible wastage.

DIRECTIONS FOR USE

Joint preparation

The substrate to which FAST FR SEALANT is to be bonded must be clean and dry and the joint profile sound. Arris repairs where required should be effected using a recommended Fast Chem repair compound.

Remove all dirt, surface laitance, residual joint former or other contamination from joint faces by power wire brushing, grinding, sawing or grit-blasting. Blow all joints clean using dry, oil-free compressed air.

All joints must be completely dry prior to commencement of sealing works. Application can be undertaken when the substrate temperature is 5°C or above. Paper backing cord must be installed at the base of all joints.

Where existing joints are to be refurbished, all traces of joint sealing compound must be completely removed from the joint prior to proceeding.

Priming

Joints which have been sand/grit blasted, and which are perfectly clean and dry, can be sealed without the use of a primer.

Heating / application

It is essential that the correct heating and application equipment is used to ensure successful performance of the sealant. FAST FR SEALANT should be poured directly into an approved oil jacketed heater / extruder.

The material must then be heated to a minimum temperature of 135°C (275°F) and extruded into

the prepared joints using an approved application lance. All initial material which has been contaminated with flushing oil must be discarded.

The maximum safe heating temperature is 150°C (300°F), and the maximum safe heating period should not exceed 6 hours. These limits must not be exceeded, failure to adhere to this instruction could result in the properties of the material being affected.

Cleaning

Application equipment should be cleaned thoroughly using FAST FR SEALANT flushing oil. Ignition sources associated with the heater / extruder must be extinguished prior to the use of flushing oil. Following application FAST FR SEALANT can only be removed mechanically.

Any spillages of FAST FR SEALANT or flushing oil should be absorbed immediately with sand, sawdust or other suitable absorbent materials. Disposal should be in accordance with local regulations.

APPLICABLE STANDARDS

FAST FR SEALANT complies with the performance requirements of: US Federal Specification SS-S-1614, 167b, 1401b 164 ASTM D7116-05. ASTM D3406-85. ASTM D3569 85. BS2499 1973 Types A1 and B1. DTp specification for Highway works 1986 clause 1016.

PACKAGING

FAST FR SEALANT	:	20 liters drum
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TECHNICAL SERVICE

A trained FAST representative is available to assist in the preparation of specifications, and the resolution of concrete problems in the field.



PRECAUTIONS

Health and safety

FAST FR SEALANT should not come in contact with skin and eyes or be swallowed. Avoid inhalation of vapours and ensure adequate ventilation.

Some people are sensitive to resins, hardeners and solvents. Wear suitable protective clothing, gloves and eye/face protection. Barrier creams such as Kerodex Antisolvent or Rozalex Antipaint provide additional skin protection.

Should accidental skin contact occur, remove immediately with a resin removing cream such as Kerocleanse Standard Grade Skin Cleanser or Rozaklens Industrial Skin Cleanser, followed by washing with soap and water. Do not use solvent.

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.

Fire

FAST FR SEALANT does not readily support flame.

For further information, refer to the Product Material Safety Data Sheet.

WARRANTY

This product is warranted to be free of defects in material and workmanship, and conform to FAST Construction Chemicals ("FAST") quality control standards. All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty or guaranty of any kind, expressed or implied including but not limited to, an implied warranty of merchantability or an implied warranty of fitness for a particular purpose. Satisfactory results depend upon many factors beyond FAST's control. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk, loss, damage, expense and liability resulting from his or her direct use, indirect use or consequential to their use of the product. FAST shall not be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use or inability to use the product. FAST's sole responsibility shall be to replace that portion of the product which proves to be defective. Any warranty claim must be made within six (6) months from the date of the claimed breach. This limited warranty applies only if the product was properly installed and used according to all instructions and was properly stored prior to use.

