

SOPRA JOINT NEA - 777

Military type joint sealant

Single component, PVC polymer, hot poured, elastomeric, joint sealant. For sealing joints in portland cement concrete airfield pavements, subjected to jet fuel spillage and jet blast.

NEA-777 is a field proven polymer-type, hot-poured, PVC elastomeric, sealant which offers outstanding field performance and for greater ease of application.

It is supplied as a liquid (5 Gallons pail) which is heated to approximately 120°C, prior to application into the joint. After application and cooling, it forms a resilient, tough and well bonded seal for exclusion of all types of foreign material.

In as much as NEA-777 is supplied as a liquid, it is much easier and more economical to handle than the solid hot-poured sealers. When heated to application temperature it is quite fluid and self leveling thus producing neat, well sealed joints.

ADVANTAGES

- * Vastly improved life due to exceptionally excellent weathering properties.
- * High resilience rejects non compressibles.
- * Quickly and easily applied.
- * Self leveling.
- * Extreme jet fuel and blast resistance.
100 psi compressed air.

EXCLUSIVE FEATURES

NEA-777 PVC type, unlike conventional hot-poured sealants, has these features:

- No flow at elevated temperatures.
- Does not blister or bubble due to weathering.
- Is highly resilient, enabling rejection of solids.

STANDARDS

ASTM designation D 4569 exceeds ASTM D 185 4 and ASTM D 3581. Federal specifications SS-S1678 and SS-S16 14 (1).

JOINT PREPARATION

Joints must be clean and dry. If joints are open at bottom it may be necessary to use a cord or rope backer rod due to high fluidity of NEA-777 at its pouring temperature.

JOINT CLEANING

New Concrete Pavement

All joints should be formed or sawed to produce a minimum joint size of 3/8x1-1/4 at 25 linear foot average joint spacing. Prior to sealing the joint, surface should be cleaned of all dirt, curing compound, residue, laitance and any other foreign material.

Clean by sand blasting thoroughly immediately prior to sealing, joints should be blown using a minimum of 100 PSI compressed air.

Old Concrete Pavement

For resealing of joints the old sealant in the joint should be down and the joint widened to 1/2x1-1/4 using a concrete saw. Joints should be cleaned of all the old sealant.

Remove all foreign material by sand blasting thoroughly immediately prior to sealing, joints should be blown using a minimum of 100 PSI compressed air.

APPLICATION

NEA-777 is shipped in liquid form, ready to be poured or pumped into the double boiler, oil

bathtmelir-applicator type kettle which is used to heat the compound to the recommended application temperature. Joint should be filled from the bottom to 1/4 to 1/6 below the pavement surface. The recommended temperature is about 140°C.

JOINT DESIGN

The movement factor of NEA-777" is about 25% the joints shall be designed for the total movement of thermal changes and concrete shrinkage and shall not exceed the "25%" movement factor".

DEPTH OF SEALANT

- Less than 10MM width + 3mm
- 12-25
- More than 25MM.

SPECIFICATIONS

- Concrete test blocks to be made in accordance with Interim Federal specification SS-S-00200c.

- Resilience to be measured in accordance with interim federal specification SS-S-00200c.

PACKAGING

5 GAL./Pail

COVERAGE

(Joint width (cm)xSealant depth (cm)xL.M)/10

Above formula gives your a theoretical coverage.

About 10% shall be considered for possible wastage.

PRECAUTION

SOPRA JOINT NEA-777, avoid breathing the fumes and provide good ventilation.

Pay good attention while handling the hot NEA-777 to avoid burns.

The sealing compound should not be exposed to ambient temperatures in excess of 40°C, whether open or indoor storage is recommended.

Avoid exposure to direct sunlight.

SPECIFICATION:		
federal Specification SS-S-16 7b, upgraded as following:		
PREPARATION OF SAMPLE (HEATING TIME-POURING TEMPERATURE)	PRESENT. 16 7b SPECIFICATION	8MODIFIED. Upgraded Specification 3 hours of
PENETRATION NON-IMMERSED FUEL IMMERSED INCREASE SOLUBILITY FLOW	90 MINUTES Mfrs. recommendation	Safa heating temperature
BOND NON-IMMERSED FUEL-IMMERSED	1.30cm max. 1.55cm max. 2.0% max. 3.0cm 5 hours at 60°C.	1.30cm max. 1.00cm max. 0.000cm max. 2.0% max. No flow, 24 hours at 70°C.
RESILIENCE 48 HOURS, ROOM TEMPERATURE 24 HOURS, OVEN AGEING AT 70°C. ARTIFICIAL WEATHERING TEST. TESTED IN ACCORDANCE WITH PARAGRAPH 4.3.3.14, INTERIM FED, SPEC. SS-S-00200c	1/4 separation, 1/4 Sq. Inch max. block, max. No requirement No requirement	* 1/4 separation average. ** 1/4 separation average. 50% min 50% min.
	No requirement	shall not flow, show taking presence of an all like firm of reversion to amastic.