

Expanseal* PJS

Hot applied rubberized pavement joint sealant

Uses

For sealing joints in concrete / asphalt pavements on roads, cargo terminals, warehouse parking areas and service roads.

Advantages

- Highly resistant to weathering, will not flow, bubble or blister at high temperatures
- Maintains rubber like properties at sub-zero temperatures
- Self leveling; produces uniform, neat joints
- Excellent adhesion with concrete & asphalt surfaces
- Can be used without primer on non-porous concrete

Standards compliance

Expanseal* PJS complies with ASTM D3406-95, ASTM D6690-07 & BS2499

Description

Expanseal* PJS is supplied as a single component polymer modified joint sealant, when heated in an oil-jacketed extruder, it is formed a liquid pourable consistency, it is formulated for sealing movement and construction joints in concrete and asphalt pavement, excellent adhesion with concrete and asphalt surfaces.

Specification

Where so designated on the drawing, joints are to be sealed using Expanseal* PJS hot applied rubberized pavement joint sealant by Fospak Expanchem.

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 10% movement accommodation factor, expressed as a percentage of the joint width.

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 Expanseal* PJS

Expanseal* PJS is normally considered suitable for joints up-to 30 mm wide in trafficed surfaces, but joint up-to 50 mm wide can be sealed with Expanseal* PJS, but the depth of the joints should not exceed 150 mm in low movement contraction joints.

Expanseal* PJS can be used without primer on non-porous concrete surfaces, but porous surface must be treated with a single coat of Expanprime* P3, consultan Fospak representative for advise.

Properties

Density	: 1.03 kg/liter ± 0.02
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Movement accommodation factor	: 10%
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Solid content	: 100%
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Application temperature	: Above 5°C
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Instructions for use

Joint preparation

The substrate to which Expanseal* PJS is to be bonded must be clean, dry and free from any form of foreign material which might effect in adhesion.

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

Joints which have been ground or wet sawn should be water jetted to ensure removal of all traces of cementitious slurry prior to continuing the sealant works. Manual wire brushing may only be used for the removal of loose material. 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, backing cord to be installed at the base of joints, where required.

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

Priming

Joints which have been properly clean, dry and sound, can be sealed without the use of a primer, porous concrete surface required single coat of Expanprime P3.

Heating / application

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

The material must then be heated to a minimum temperature of 165°C 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 195°C, 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 Expanseal* flushing oil. Ignition sources associated with the heater / extruder must be extinguished prior to the use of flushing oil. Following application Expanseal* PJS can only be removed mechanically.

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

Technical support

Expanchem Fospak offers a comprehensive range of high performance, high quality repair, maintenance and construction products. In addition, Expanchem Fospak offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the world.

Estimating

Supply

Expanseal* PJS : 20 Kg. drum

Expanseal* flushing oil : 20 litre drums

Coverage

Expanseal* PJS : Number of litres 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.

Storage

Shelf life

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

Precautions

Health and safety

Expanseal* PJS 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

Expanseal* PJS does not readily support flame, however, Expanprime P3 is highly flammable, avoid contact with naked flame.

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

Additional Information

Expanchem Fospak manufactures a wide range of complementary products which include :

- waterproofing membranes & waterstops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialized flooring materials

* Denotes the trademark registered.

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