

SPEC^{seal} TS569

HOT APPLIED PITCH/PVC ELASTOMERIC FUEL RESISTANT JOINT SEALANT

DESCRIPTION

SpECseal TS569 is a hot-applied one part elastomeric joint sealant.

The polymer modified product is supplied in drums and is heated in an approved extruder prior to installation into the joints. The unique formulation of **SpECseal TS569** enables direct application into joints without the use of a primer.

TYPICAL USES

SpECseal TS569 has been specifically developed for sealing joints in concrete pavements where fuel and chemical spillages are likely, i.e. airfield aprons, runways, taxiways, cargo handling areas, parking areas, petrol stations and service roads.

ADVANTAGES

- Highly resistance to petrol, oil and jet fuel spillages
- Resistant to jet blast and penetration from stones and other hard debris
- Self-levelling and high application rate
- Temperature range tolerance
- No primer required
- Conforms to all relevant civil and military specifications
- Elastomeric and high movement accommodation factor capability
- Exceptional track record

RELEVANT STANDARDS

BS 2499 1993 F1
US Federal Specification
SS-S-1614,167b,1401b,1614
ASTM D3569-85, D3406-85

TECHNICAL DATA

Specific gravity	1.3 at 20°C
Service temperature	-20°C to 70°C

Movement

accommodation factor	25%
Resilience	65-75%

DESIGN FACTORS

Design of the joints should be such that the increase of the width of the joint due to thermal movement does not exceed the 25% movement accommodation factor expressed as a percentage of the joint width.

<i>joint width (mm)</i>	<i>sealant depth (mm)</i>
9 (min) – 12	as width + 3
13 - 15	15
16 - 25	as width
25 - 40 (max)	25 (max)

Typically joints should be sealed 4-5mm below flush, to prevent damage and to allow sealant room during expansion.

New concrete should be allowed to cure for minimum of 14 days prior to sealing works.

APPLICATION

Surface preparation

New concrete

The joint surfaces must be dry and free of all surface laitance.

All dirt, dust, laitance and contaminants to be removed either by high pressure grit blasting, grinding or sawing. Joints which have been wet-sawn should be water jetted to remove all traces of cementitious slurry. Ensure that the joints are completely dry prior to commencement of sealing works.

SpECcord TS (PE) or debonding tape must be installed at the base of the joint.

Aged or weathered concrete

All existing sealing compounds must be completely removed by saw-cutting or grinding to ensure that fresh uncontaminated concrete surfaces are exposed. Preparation procedures for new concrete should then be followed.

Priming

No priming is required providing that the preparation instructions are followed strictly. BS 2499 F1 specification obtained without the use of a primer.

Heating & application

It is essential that correct heating and approved equipment is used.

SpECseal TS569 should be poured directly from the drums into an approved oil jacketed thermostatically controlled heater / extruder which has an agitator for continuous mixing during heating.

SpECseal TS569 must be heated to a minimum temperature of 135°C and extruded directly into the joint using a suitable lance.

Maximum safe heating temperature is 150°C.

Maximum safe heating period is 6 hours.

THESE LIMITS MUST NOT BE EXCEEDED

Ensure that any initial material extruded, which will be contaminated with flushing oil, is discarded.

EQUIPMENT CLEANING

All equipment should be cleaned thoroughly using **SpECseal TS Cleaning Fluid**. Ensure that flames are extinguished prior to cleaning works.

Spillages should be absorbed immediately with sand, sawdust, vermiculite etc., and disposed of in accordance with local regulations.

LIMITATIONS

SpECseal TS569 will not form a bond on asphalt surfaces.

PACKAGING & YIELD

SpECseal TS569 is supplied in 17 litre drums yielding around 22.1kg at 20°C.

ESTIMATING

Joint width (mm) x sealant depth (mm)
x joint length (metres)

1000

= quantity of **SpECseal TS569** in litres

STORAGE & SHELF LIFE

DO NOT store in direct sunlight. **SpECseal TS569** has a shelf-life of at least 2 years if stored in original containers between 10° and 25°C

HEALTH & SAFETY

SpECseal TS569 should not come into contact with skin or eyes or be swallowed. If contact occurs remove immediately with suitable cleansing cream followed by soap and water.

Wear suitable protective gloves, eye / face protection and overalls. If in contact with eyes rinse with clean water and seek medical advice.

If swallowed, DO NOT induce vomiting, seek medical attention immediately.

Avoid inhalation of fumes during heating and application. Ensure adequate ventilation in confined areas.

If in contact with hot sealant do not remove sealant or clothing but bathe in plenty of water and seek medical attention.

FLASH POINT

SpECseal TS569

245°C

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