Highseal F1

Pitch/PVC Elastomeric Fuel Resistant Joint Sealant

DESCRIPTION
Highseal F1 is a hot-applied, one part elastomeric joint sealant. Polymer modified liquid is supplied in drums and is heated in an approved extruder prior to installation into the joints. The unique formulation of Highseal F1 enables direct application into the joints without the use of a primer

USES
Highseal F1 has been specifically developed for use where fuel and chemical spillages are likely, i.e. the airfield aprons, runways, taxiways, cargo handling areas, parking areas, petrol stations and service roads.

ADVANTAGES
- Highly resistant to petrol, oil and jet fuel
- Resistant to jet blast and penetration from stones and other hard debris
- Self-levelling with a high application rate
- Outstanding temperature range tolerance
- No primer required
- Conforms to all relevant civil and military specifications
- Elastomeric and high movement accommodation factor capability

PHYSICAL PROPERTIES

Specific Gravity	1.3 kg/litre
Movement Accommodation	25%
Service Temperature	-20° C to 70° C
Resilience	65 – 75%

STANDARD COMPLIANCE

BS 2499 1993 F1
US Federal Specification SS-S1614, 167b, 1401b, 1614
ASTM D3569-95, D3406-95
ASTM D7116-05

INSTRUCTIONS FOR USE

SURFACE PREPARATION

NEW CONCRETE
The joint surfaces must be dry and free from 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.

AGED OR WEATHERED CONCRETE
All existing sealing compounds must be completely removed, by saw-cutting or grinding to ensure that fresh uncontaminated concrete surface is exposed. Preparation procedures for new concrete should then be followed. Paper back up rod and de-boning tape must be installed at the base of the joint

PRIMING

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

HEATING AND APPLICATION

It is essential the CORRECT heating and approved application equipment is used. Highseal F1 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. Highseal F1 must be heated to a minimum temperature of 135°C up to a maximum of 150°C and extruded directly into the joint using a suitable lance. Discard any initial material extruded which will be contaminated with flushing oil. The maximum safe heating temperature is 190°C with a maximum safe heating period of 6 hours

DO NOT EXCEED THESE SAFE LIMITS

Once the application is complete, immediately flush the lines with flushing oil.

ESTIMATING

$$\frac{\text{Joint width (mm)} \times \text{sealant depth (mm)} \times \text{joint length (metres)}}{1000} = \text{Litres of Highseal F1 required}$$

PACKAGING

17 litre (22.1kg) lined drums

DESIGN FACTORS

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

Joint Width (mm)	Sealant Depth (mm)
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 a minimum of 14 days prior to works.

LIMITATIONS

Highseal F1 will not bond to asphalt surfaces.

CLEANING

Clean all equipment thoroughly using flushing oil. Ensure that flames are extinguished prior to cleaning works. Spillages should be absorbed immediately with sand, sawdust, vermiculite etc, disposed of in accordance with regulations.

STORAGE

DO NOT store in direct sunlight. Shelf life at least 12 months if stored in original containers between 10° C and 25° C.

PRECAUTIONS

For further information on our precautions please see the MSDS.

www.conren.com

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