



## Highseal F1

### Pitch/PVC Elastomeric Fuel Resistant Joint Sealant

#### USES

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

#### 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

#### 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

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

#### STANDARD COMPLIANCE

BS 2499 1993 F1  
US Federal Specification SS-S1614, 167b, 1401b, 1614  
ASTM D3569-85, D3406-85



#### 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 debonding 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 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 150°C and extruded directly into the joint using a suitable lance. The maximum safe heating temperature is 190°C with a maximum safe heating period of 6 hours

### DO NOT EXCEED THESE SAFE LIMITS

Discard any initial material extruded which will be contaminated with flushing oil.

## ESTIMATING

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

1000

= Litres of Highseal F1 required

## PACKAGING

20litre (26kg) 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.

<u>Joint Width (mm)</u>	<u>Sealant Depth (mm)</u>
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.

## PRECAUTIONS

Highseal F1 should not come into contact with skin, eyes, etc. 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 in clean water and seek medical advice. If swallowed, DO NOT induce vomiting and seek medical attention. 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.

## LIMITATIONS

Highseal F1 will not bond to asphalt surfaces.

## CONTRACTING SERVICE

Conren Limited offers a contracting service for the application of all Conren products. This facility is back by a comprehensive technical and after sales service. We are able to contend with most problems in the field.

## TECHNICAL SERVICE & QUALITY ASSURANCE

All information provided in this leaflet is based on results obtained from our own experience and test and is give in good faith. The user will be deemed to have satisfied himself independently of the suitability of Conren's products for his own particular purpose. We guarantee to replace, free of charge, any goods supplied by us which are proved to our satisfaction defective, but, as the application of these materials is necessarily beyond our control, we will not accept responsibility for any damage or loss arising wholly or in part from these materials. Except as herein provided, any express or implied condition, warranty, statement or representation, statutory or otherwise as to the quality of the goods is expressly excluded.

## STORAGE

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

## 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

## SPECIFICATION

Fuel resistant joint sealant shall be Conren Highseal F1.

All products to be applied in accordance with Conren's written instructions.

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