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X-Seal FR200

Jet fuel resistant joint sealant

Product Description

X-Seal FR200 is a high performance fuel resistant sealant for concrete joints subject to attack from fuels, chemicals and biodegradation. Its jet fuel and flame resistance makes it ideal for sealing joints where fuel, oil, hydraulic fluid and skydrol spillage may occur, such as airport fueling locations, highway fuelling stations, ports and wharfage. It can also be used for wastewater structures, industrial plants, pavements, roads and walkways.

Advantages

- Meets SCAQMD Rule 1168 & LEED VOC Limits
- Formaldehyde free
- Durable resilient seal
- High early movement accommodation
- Excellent application characteristics
- Good fuel and chemical resistance
- Available in gun and pouring grades

Uses

- Movement joints
- Pavement joints subject to fuel spillage
- Floors subject to chemical spillage
- Airport runways and taxiways.

Specification Compliance

SCAQMD Rule 1168
 LEED NC2009 IEQ 4.1
 Estidama LBi-2.1
 British Standard 5212:1990 Types N, F & FB.
 US Fed Spec SS-S-200E.
 USCOE CRD-C 526-92

Movement Accommodation (BS6093)

Butt joints: 25%

Chemical Resistance

X-Seal FR200 is resistant to the spillage of petrol, aviation fuel, diesel fuel, kerosene, lubrication oils, hydraulic fluid, skydrol and white spirit.

Application Properties

Application temperature	0 to 60C
Initial cure	4 hours at 25C
Full cure	3 days at 25C

Service Temperature

Continuous: -40C to +130C
 Intermittent (CRD-C 526-92): -40C to +260C

Volatile Organic Content

VOC = <100g/L

Color

Black or grey.

Guide to Quantities

Joint Size (mm)	Litres per metre run	Metre run per litre
10 x 10	0.10	10.00
13 x 13	0.17	5.92
15 x 15	0.22	4.44
20 x 15	0.30	3.33
20 x 20	0.40	2.50
25 x 20	0.50	2.00
25 x 25	0.62	1.60
30 x 25	0.75	1.33
30 x 30	0.90	1.11

Packaging

Pouring Grade: 4 and 20 liter packs.
 Gun Grade: 2.5 liter packs.

Shelf Life

12 months when stored below 25C under shade in a dry environment.

Joint Design Considerations

- X-Seal FR200 has a movement accommodation factor (MAF) of 25%. It can be applied in joints of 5mm (3/16") to 50mm (2") wide.
- Movement joints should be designed to allow a sealant width to depth ratio of between 1½:1 and 1:1.
- In order to allow movement to be accommodated over the full width of the sealant, it must be debonded at the base of the joint.
- Joints in concrete pavements are subject to vehicular traffic. Joint sealants should therefore always be fully

supported and the sealant recessed to ensure that, at no time during the movement cycle, will the sealant extrude above the level of the pavement surface.

- For maximum performance, joint edges must be primed with X-Seal FR200 Primer.

Installation Guidelines

X-Calibur provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

Joint Preparation

Joints should be accurately formed. Joint edges must be sound, dry and free from any contaminants. The joint edges must be prepared by grit blasting, grinding or wire brushing to produce a rough clean surface. Care should be taken to ensure that the joint is formed to the required depth, and any expansion joint filler tightly packed in place. For joints in asphalt contact your X-Calibur representative or distributor for advice regarding priming and joint detailing.

Priming

Use X-Seal FR200 Primer. The primer should be applied to the joint sides using a clean, dry paint brush. Work the primer well into the substrate. After application of primer, debond the base of the joint using siliconized debonding tape over the joint filler board. X-Seal FR200 should be applied once the primer is touch dry. The sealant should be applied within 1 to 3 hours after priming. If the primer is left to dry longer than 3 hours, the surfaces must be re-primed prior to applying the sealant.

Mixing

Add the entire contents of Part A (curing agent) to Part B (base component) and mix with an X-Seal mixing paddle using a slow speed drill. Mix for one minute then scrape the sides of the container to ensure all of Part A is removed from the sides. Mix for three minutes more to ensure complete mixing. Temperature of the mixed sealant should be between 10C and 40C.

Application

Apply using a sealant gun designed for pouring grade sealants or use direct from the can. The joint sealant should be slightly recessed. Apply within 45 minutes of mixing at 25C.

X-Seal FR200 can be mixed and installed using a low pressure proportioning pump and static mixer. Please contact X-Calibur for details of recommended equipment suppliers.

Cleaning

Clean equipment using X-Shield Solvent S.

Limitations

Do not apply in rain or wet conditions, or at temperatures below 5C.

Do not part mix.

Do not fully immerse the joint sealant until full cure is achieved.

Health and Safety

This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website www.x-calibur.us

Authorized Technical Specialist

Please note that only X-Calibur Authorized Technical Support Specialists ('ATSS') are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit www.x-calibur.us for a full list of X-Calibur ATSS.

Datasheet Validity

X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on www.x-calibur.us to ensure you have the latest version.

Warranties

X-Calibur supplies products they comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. X-Calibur does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to X-Calibur in writing within five working days of being detected. X-Calibur Construction Chemistry Inc. **makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied.** X-Calibur Construction Chemistry Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.