

X-Seal CR800

High performance chemical resistant joint sealant

Product Description

X-Seal CR800 is a high performance sealant for use in applications that require a high degree of chemical resistance. It has excellent adhesion to most substrates and can be used in immersed conditions. It is available in gun and pouring grades.

Advantages

- Resistant to a wide range of chemicals
- Can be used in immersed conditions
- Durable resilient seal
- High early movement accommodation
- Excellent application characteristics

Uses

- High movement joints
- General purpose joint sealing
- Joint sealing of:
 - Highway structures
 - Water retaining and excluding structures
 - Basement cladding
 - Floors
 - Subways

Specification Compliance

British Standard BS 4254
British Standard BS 5212 Part 1
ASTM C920, Type M, Grade P & NS, Class 12.5

Movement Accommodation (BS6093)

BS6093: 25%
ASTM C920: +/- 12.5%

Chemical Resistance

- Waste water incl. raw sewage
- Distilled water
- Sea water
- Hydrocarbon fuels
- Most acids with a pH down to 2.5
- Most alkalis with a pH up to 11.5

Application Properties

Property	Typical Results
Application temperature	0 to 50C
Pot life	2 hours at 35C
Initial cure	24 hours at 25C
Full cure	7 days at 25C
Service temperature	-20 to 80C

Color

Black.

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
50 x 25	1.25	0.8

Packaging

Gun grade: 2.5 liter pack
Pouring grade: 4 liter pack

Shelf Life

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

Joint Design Considerations

- X-Seal CR800 has a movement accommodation factor (MAF) of 25%. It can be applied in joints of 6 mm to 30mm wide and 10mm to 25mm deep.
- Minimum sealant depth:
6mm: Impervious substrates
10mm: All porous substrates

- 20mm: Traffic and hydrostatic joints.
- Movement joints should be designed to allow a sealant width to depth ratio of 2:1.
- In order to accommodate movement over the full width of the sealant, it must be debonded.
- 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 EP Primer.

Installation Guidelines

NCC 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 by 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 is tightly packed in place.

Priming

Use X-Seal EP Primer. The primer should be mixed by adding Part B into Part A and mixed by hand using a paint stirrer until fully homogenous. This will take at least three minutes. 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 joint using siliconized debonding tape over the joint filler board. X-Seal CR800 should be applied once the primer is touch dry. The sealant should be applied between 1 and 12 hours after priming. If the primer is left to dry longer than 12 hours, the surfaces must be re-primed prior to applying the sealant.

Mixing

Mix for three minutes to ensure complete 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 (400 to 500rpm). Mix for three minutes more to ensure complete mixing. Temperature of the mixed sealant should be between 0°C and 60°C.

Application

Apply using a sealant gun designed for sealants, or use direct from the can. The joint sealant should be slightly recessed.

Clean Up

Clean equipment using X-Seal Solvent S.

Limitations

Do not apply in rain or wet conditions or at temperatures below 0C.
Do not part mix.
Do not over paint
Do not use in joints where movement will be over +/- 12.5 of the joint width
Do not use in contact with asphalt.
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.ncc.com.eg

Authorized Technical Specialist

Please note that only NCC 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.ncc.com.eg for a full list of X-Calibur ATSSs.

Datasheet Validity

NCC X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on www.ncc.com.eg to ensure you have the latest version.

Warranties

NCC X-Calibur supplies products that 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. NCC 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 NCC X-Calibur in writing within five working days of being detected. NCC X-Calibur Construction Systems 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.** NCC X-Calibur Construction Systems Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.



Quality Statement
All Products manufactured by NCC X-CALIBUR or imported from X-CALIBUR companies world-wide are manufactured to procedures certified to conform the quality, environment, systems described in the ISO 14001:2004 , ISO 9001:2000.



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