

X-Seal CladSeal HPS

Superior performance low modulus neutral cure silicone sealant

Product Description

X-Seal CladSeal HPS is a high performance, low modulus, one part silicone sealant for multi purpose use in expansion and construction joints.

Advantages

- Meets SCAQMD Rule 1168 & LEED VOC Limits
- Formaldehyde free
- Single component
- No primer required for most substrates
- Easy to use
- Durable resilient seal
- Suitable for a wide variety of substrates
- Excellent adhesion
- Short tack free time
- Low modulus
- Non toxic
- Mold and mildew resistant

Uses

- High movement joints
- Construction joints
- Bathrooms
- Windows and glazing
- All types of cladding joint
- General purpose joint sealing
- Joint sealing of:
 - Highway structures
 - Precast units
 - Basements
 - Cladding
 - Floors
 - Subways

Substrates

X-Seal CladSeal HPS is suitable for application to a wide variety of substrates including:

- Glass
- Stainless steel
- Aluminum
- PVDF coated composite panels
- GRP and GRE panels
- Acrylic panels
- Concrete
- Cement Mortar

Movement Accommodation

BS 6093: 50%
ASTM C920: Class 25

Specification Compliance

SCAQMD Rule 1168
LEED NC2009 IEQ 4.1
ASTM C920, Type S, Grade NS, Class 25

Laboratory Test Data

Property	Typical Results
Elongation (ASTM C 920-05)	470%
Hardness (Shore A) (ASTM C 920-05)	16
Specific gravity	0.98

Application Properties

Skin over time	10 mins.
Tack free time	20 mins.
Cure time (2mm thickness)	24 hours

Above properties are for air cured samples at 25°C and 50% R.H.

Colour

Grey, white, beige, black and clear. Custom color matching service available, minimum order only 12 x 300ml cartridges.

Yield

Joint size (mm)	Meters per pack	
	300ml	600ml
6 x 6	8.33	16.66
10 x 6	5.00	10.00
12 x 6	4.16	8.33
12 x 10	2.5	5.00
20 x 10	1.5	3.00
25 x 12	1.0	2.00
30 x 15	0.67	1.33
40 x 20	0.37	0.75

Volatile Organic Content

VOC = 35 g/L

Packaging

300ml cartridges and 600ml sausages.

Shelf life

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

Joint Design Considerations

Movement joints should be designed to allow a sealant width to depth ratio of 2:1.

In order to allow movement to be accommodated over the full width of the sealant, it must be debonded.

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. Concrete substrates must be at least 28 days old. Joint edges must be thoroughly clean, sound, dry and free from any contaminants. Care should be taken to ensure that the joint is formed to the required depth, and any expansion joint filler tightly packed in place.

Priming

Priming is not normally required on good quality substrates. Porous substrates that may be susceptible to staining must be sealed with X-Seal EpoxyPrime prior to applying the sealant.

Application

Mask off the area to be sealed to prevent excess sealant from contaminating the facade or concrete surface. Gun the sealant firmly into the joint, making sure that the joint edges have full contact with the sealant. Finish the sealant surface using soapy water and a sealant finishing tool.

Cleaning

Clean equipment using X-Seal Cleaner.

Limitations

Allow sealant to cure before disposal.

Do not apply in rain or wet conditions, or at temperatures below 10°C.

Do not use on porous substrates that are susceptible to staining.

Do not allow contact with asphalt.

Do not use in immersed conditions.

Do not expose to aggressive chemicals.

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 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 NCC X-Calibur ATSS.

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 these 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 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. NCC X-Calibur Construction Chemistry 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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www.x-calibur.us