

X-Roc MultiBond LX

Multi-purpose primer and mortar additive

Product Description

X-Roc MultiBond LX is a multi purpose polymer used to improve adhesion and water resistance of cement based mortar and renders.

Advantages

- Easy to use
- Multi function
- Improves mortars and screeds
- Can be used in immersed conditions

Uses

- Water resistant renders and screeds
- Bonding of mortars and screeds
- Repair and patching of concrete

Mix Designs

The mix design below are for general guidance only. Due to the variability in cement, aggregates, sand, mix design and properties will vary.

General Purpose Render, Mortar or Screed

50kg	Type 1 Portland cement
150kg	Washed sharp sand (medium grading)
9 liters	X-Roc MultiBond LX
8 liters	Water (approximate)
Yield	100 liters (approximate)

Heavy Duty Floor Screed (Min. Thickness 15mm)

50kg	Type 1 Portland cement
90kg	3 to 5mm hard aggregate such as granite
90kg	Washed sharp sand (medium grading)
6 liters	X-Roc MultiBond LX
6 liters	Water (approximate)
Yield	100 liters (approximate)

Concrete Repair Mortars

50kg	Type 1 Portland cement
125kg	Washed sharp sand (medium grading)
20 liters	X-Roc MultiBond LX
Yield	75 liters (approximate)

Fairing Coat

50kg	Type 1 Portland cement
100kg	Fine sand
20 liters	X-Roc MultiBond LX
Yield	65 liters (approximate)

Standards Compliance

ASTM C1059 Type II

Packaging

X-Roc MultiBond LX is supplied in 1 kg, 4 kg, 20kg and 200kg

Shelf Life

12 months when stored below 35C under shade in a dry environment.

Installation Guidelines

Surface Preparation

All surfaces must be clean and structurally sound. Oil and grease must be removed. This can be achieved using X-Treat Substrate Cleaner. For best results, the surface of the concrete should be mechanically scarified or scabbled, although other methods, including grit blasting, hydro blasting and acid etching can be used.

Always carry out trial application first to determine if the properties are suitable for the proposed use.

Priming

Mix 1:1 with cement by weight. Make sure mix is homogeneous then brush on to the prepared surface. Apply the wet mortar when the primer coat is still wet or tacky.

Mixing

Using an NCC X-Calibur approved forced action mechanical mixer, add the cement and aggregates and mix for one minute. Continue mixing and add X-Roc MultiBond LX, pre-dispersed in the mixing water, and mix for at least a further three minutes until fully mixed.

Renderers

Two priming coats should be applied ideally at right angles to one another. The second coat should be applied immediately after the first coat has dried, approximately 30 minutes. Apply general purpose

mortar while the primer is still tacky. Minimum thickness is 10mm. Where more than one layer is applied, ensure that the intermediate layers are hatched to provide a mechanical key. If the surface dries out completely then the surface should be re-primed. Allow 5 hours between layers.

Mortars

Thickness is dependent on application but 15mm is normal. On vertical surfaces this is built up in two applications. Normal time between applications is 5 hours but this is dependent on temperature.

Where more than one application is applied ensure that the intermediate coats are cross hatched to provide a mechanical key. If the surface dries out completely then the surface should be re-primed.

Screeds

Apply up to 75mm in one application; the minimum screed thickness should be 15mm. Ensure that the screed is well bonded to the substrate and that it is fully compacted. Do not use water to finish the surface as this will cause cracking, crazing and dusting of the surface.

Fairing Coat

The mixed material should be applied immediately after mixing is completed. Apply using a steel trowel to the required thickness; allow to partially stiffen, then finish using a trowel to achieve a uniform dense surface. Do not use water to finish the surface.

Curing

Cure for a minimum of three days using a curing compound or water. The longer the curing period (up to seven days) the better will be the performance of the mortar. Screeds should be continuously water cured for seven days.

Limitations

Do not allow to dry before applying mortar (when being used as a primer).

Do not discard into the water system.

Avoid excessive application.

Avoid skin contact.

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 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 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