

X-Shield AC 50

One component, high performance 100% pure acrylic decorative finish coat for concrete

Product Description

X-Shield AC 50 is a high performance 100% pure acrylic emulsion decorative coating, exterior and interior paint with wide range of colours that effectively fights against fading and dull colours caused by the weather elements to deliver outstanding durability.

Composition

X-Shield AC 50 is a water-dispersed, 100% pure acrylic emulsion, polymer modified, coating containing fillers, pigments, adhesion promoters and wetting agents.

Advantages:

- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Formaldehyde free
- Environmentally friendly
- UV resistant
- Highly elongation
- Dirt resistance
- Water resistance
- Non-flammable and reduces temperature
- Available in wide range of colors
- Can be used with anti-chloride treatments
- Contains anti-fungal and anti-algae additives

Uses

- Finish coat for both exterior and interior applications.
- For new building and repainting.
- For concrete, masonry, plaster and brickwork.

Specification Compliance

- ASTM C1305
- ASTM D523
- ASTM D2486
- ASTM G2I
- SCAQMD Rule 1113
- LEED NC2009 IEQ 4.2

Laboratory Test Data

Specific gravity	1.2 ± 0.05
Soilds by volume	46 ± 1
Crack bridging ASTM C1305	Max 1mm, (10 cycles)
Gloss ASTM D523	20° = 13.3 60° = 59.5 85° = 54.5
Scrub resistance ASTM D2486	5000 cycles
Anti-fungi ASTM G2I	Pass

Laboratory Test Data

Dry film thickness	40 – 110 microns
Wet film thickness	87 – 240 microns
Initial cure	2 hour at 23°C / 50% RH
Full cure	8 hours at 23°C / 50% RH
Recoat time	6 hours at 23°C / 50% RH

Drying times above are mainly related to a good ventilation due to air circulation, temperature, film thickness, number of coats

Service Temperature

3C to 60C

Volatile Organic Content

VOC = 0 g/L

Color

White and other wide range available on request.

Theoretical Coverage

11.5 – 4.16 m2 per liter

Actual coverage will vary with surface profile.

Dilution

X-Shield AC 50 maybe diluted with water up to a maximum of 5% to 10%.

Packaging

4 and 20 Liter pails.

other sizes available on request

Shelf Life

12 months when stored between 5 and 35C under shade in a dry environment.

Installation Guidelines

X-Shield AC 50 should be applied by experienced paint crews. 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

Surface Preparation

The substrate must be structurally sound. Loose or unsound concrete should be removed and made good. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The surface should be prepared by light grit blasting or high pressure water blasting to produce a lightly exposed aggregate surface. Any bug holes should be filled with a cementitious or acrylic filler..

Application

I-Priming

Priming is not normally required. Apply one coat of **X-Shield Primer AR** of 100 microns per coat W.F.T. This product should also be used on cement render, plaster substrates and concrete with a high alkali or cement content. In areas subject to high chloride concentrations, prime using an **X-Shield Anti-Chloride** treatment.

II-Putty

Acrylic putty is highly required. Using two layers of 0.25 -0.3 kg/m² per layer with **X-Roc Finish Putty WB**. This product should also be used on the top of primer **X-Shield Primer AR**.

III-TopCoat

Apply in two coats of 87 - 240 microns W.F.T. for exterior and interior applications, using brush, roller or airless spray. When using airless spray, tip size should be 0.021" to 0.0027" at a pressure of 2100psi. The product can be thinned by 5%-10%, if necessary, using clean water but the wet film thickness should be increased accordingly. Recoat after 2 hours at 23C.

Clean Up

Clean equipment using water.

Limitations

Do not apply in rain or wet conditions.
Do not apply at temperatures below 5C.
Do not apply at temperatures above 50C or within 3C of the dew point.
Avoid skin contact.
Do not discard into the water system.
Protect from wear and abrasion.
Avoid excessive application.
Apply only on to slabs that have a waterproofing system installed in order to prevent blistering due to osmosis.

Health and Safety

This product is for industrial use only by trained operatives. It is not considered hazardous if 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 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 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.