

## TECHNICAL DATA SHEET

# ULTRA SHIELD - XT

ULTRA SHIELD - XT is a two-pack isocyanate-free inorganic-organic acrylic polysiloxane paint which can be used to manufacture coatings having superior weathering performance over polyurethane and with better mechanical and chemical performance than epoxy.



## Typical applications

Acrylic polysiloxane paint can be an ideal solution for top coat applications areas like industrial machineries, bridges, stadiums and other structures where aesthetics and performance for several years are important.

## Features & Benefits

- + High performance anti-corrosive protection
- + Good abrasion and impact resistance
- + Good film flexibility & Gloss retention
- + Excellent UV resistance.
- + Isocyanate free

## Technical information

**Materials:** Two packs reactive system

**Color:** Base white

**Mix ratio (base: curing agent):** 86:14 (wt/wt)

**Pot life:** Minimum 4 hours @ 30°C

**Dry time:** Touch dry 3 - 5 hours @ 30°C  
Hard dry 24 hours @ 30°C

**Recoat time:** 12 hours

**Full cure:** 7 days

**Recommended DFT:** Dependant on application

**Coverage:** Approx 100 - 150 sq.ft. per litre  
in two coats

**Method of application:** Airless Spray, Air Spray,  
Brush, Roller

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## Application Guidelines

### Surface preparation

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Surface must be free from dirt, grease, oils and any other foreign substances. Any flakes of old paint or powdery residues must be scrapped off and cleaned thoroughly by sanding using an emery paper. Algae and fungus on walls to be removed by high pressure water wash or coir brush and apply Bio-Wash fungicidal solution if needed. Fill cracks with suitable crack filling chemicals prior to start the painting job.

Acrylic polysiloxane should always be applied over a recommended anti-corrosive coating scheme. The primer surface should be dry and free from all contamination and ULTRA SHIELD - XT paint must be applied within the over coating intervals specified.

### Mixing and Application

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Stir the base and hardener parts separately before mix them together. Mix hardener gradually into the base container (not the reverse) under continuous stirring. Always mix the full quantity as supplied to avoid improper curing issues. A suitable power mixer is recommended for uniform mixing of the product. Continue the mixing for 3-5 minutes. Allow induction time of 15-20 minutes and then thin down to applicable consistency with required quantity of solvent. Mix thoroughly till the components become homogenous. Apply the paint liberally with paint brush followed by rollers. Apply 2 to 3 coats of ULTRA SHIELD - XT to achieve the desire opacity as well as finish, depending on the shades. Provide 4-5 hrs drying interval in between the coats.

### Precautions & limitations

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- + Once base is mixed with hardener, paint should be consumed within pot-life.
- + Do not apply when concrete surfaces or ambient temperatures are below the dew point.
- + Material and the substrate temperature should be above 10°C and below 50°C before use
- + Application on direct sunlight and windy situation may affect the paint performance

### Cleaning

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Clean all tools and spillage of paint with water immediately after application.

### Product specs

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**Storage:** Store in cool & dry place.

Keep container tightly closed in a secure, upright position. Store in accordance with local regulations.

**Packing:** 1, 5 & 20 ltr

**Shelf life (when stored as recommended):** Min 12 months