



# ULTRA ACRYLIC SEALER

Clear Non-Yellowing Protective Coating

## DESCRIPTION

The Ultra Acrylic Sealer comprises a single component, penetrating silane-siloxane primer and a single component clear coating, both ready for immediate site use.

The primer (Acrylic sealer) is supplied as a clear liquid and is based on a silane-siloxane dissolved in a penetrating organic carrier. The primer is reactive and capable of producing a chemically bound hydrophobic barrier, thus inhibiting the passage of water and water borne contaminants.

Ultra Acrylic Sealer is a solvent based clear methacrylate coating which will provide resistance to aggressive elements, weathering and rain. A major feature of the system is its ability to allow water vapour to escape from the structure.

**Clear protective coating system for exposed concrete and masonry**

### Uses

The protect atmospherically exposed reinforced concrete structures from attack by acid gases, chloride ions, sulphates, oxygen and water. The product is also suitable to protect other cementitious substrates and masonry. Ultra Acrylic Sealer is suitable for use on all types of structures, car parks, commercial and industrial buildings, subways, underpasses and bridges. It is equally suitable for new and existing structures. Ultra Acrylic Sealer is a component

of Ultra Chemicals system of concrete reinstatement.

## Advantages

Highly resistant to weathering. Good barrier to chloride ingress. Breathe ability allows water vapour to escape from structure. Provides a barrier to carbon dioxide and other atmospheric acid gases.

## Specification clauses

Clear methacrylate protective/ weather resistant surface coating

The protective coating shall comprise a penetrating oligomeric siloxane primer and Acrylic Sealer, a single component methacrylate coating. The total dry film thickness of the system shall not be less than 20 microns and shall give a reduction a chloride ion penetration not less than 90%. When tested to BS 476, Pt 7: 1989. It must exhibit a Class 1 spread of flame and achieve a Class 0. Building Regulations rating when tested to BS 476, Pt 6 1989 and Pt 7: 1987.

## Properties

The values obtained are for the Acrylic Sealer system applied at the minimum recommended application rate.

Volume solids  
Ultra Acrylic Sealer 15%

Carbon dioxide diffusion resistance (Taywood metho).

Equivalent thickness of air  
Initial 3.8m per 20 microns d.f.t.

Equivalent thickness of  
30 N/mm<sup>2</sup> concrete cover  
(Taywood method): 9.3 mm per 20 microns d.f.t.

Water vapour diffusion resistance  
(Taywood Method) SD0.07 m @  
172 microns d.f.t.

Reduction in chloride ion  
penetration (Aston Page  
Method) > 90%

Fire testing (BS 476, Pt 7: 1987  
Spread of flame: Class 1

Fire testing (BS 476, Pt 6: 1989) –  
Propagation, index: 1.0  
Sub index: 0.8  
Building Regulations rating Class 0

Freeze/thaw salt scaling  
ASTM C672 (50 cycles) unaffected.

Reduction in water absorption  
ASTM C642? 84%

## Surface preparation

All surfaces should dry and free from contamination such as oil, grease, loose particles, decayed matter, moss, algal growth, laitance, and all traces of mould release oils and curing compounds. This is best achieved by lightly grit-blasting the surface. Where moss, algae or similar growths have occurred, treatment with a proprietary biocide should be carried out after the frit-blasting process.

## Coverage

Ultra Acrylic Sealer: 10 m<sup>2</sup>/ltr/coat  
Ultra Weather Guard: 3-5 m<sup>2</sup>/ltr/coat



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## Packing:

210 Liter, 30 Liter

## Limitations

The Ultra Acrylic Sealer system is formulated for application to clean, sound concrete or masonry. Where application over existing sound coating or paints is required, trials should be conducted to ensure compatibility and retention of the bond between the underlying coating and the substrate. When applied over existing coatings or paints the performance characteristics of Ultra Acrylic Sealer may be impaired and its fire rating invalidated. Compatibility and soundness should be assessed on a trial area. For further advice, consult Ultra Chemicals Technical Department.

## Storage:

All products have shelf life of 12 months if kept in a dry store in the original, unopened packs. Material from different batches shall be stored separately. If stored at high temperatures and/or high humidity conditions the shelf life may be reduced.

## Flash points

Ultra Acrylic Sealer	7° C
Ultra Weather guard	38° C

**WARRANTY:** The Ultra Chemicals, LLC. ("Ultra ") solely and expressly warrants that its products shall be free from defects in materials and workmanship for 12 months from the date of purchase. unless authorized in writing by an officer of Ultra , no other representations or statements made by Ultra or its representatives, in writing or orally, shall alter this warranty. ULTRA MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Ultra product fails to conform with this warranty, Ultra will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Ultra does not authorize anyone on its behalf to make any written or oral statements which in any way alter Ultra 's installation information or instructions in its product literature or on its packaging labels. Any installation of Ultra products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Ultra 's products for the Buyer's intended purposes.

## Storage:

Avoid to place direct to sun light and always store in shady areas.

## ISO Certification:

Our production facility at Pakistan is ISO 9001:2008 ISO 14001:2004 by BUREAU VERITAS and UKAS Management