



Ultra Seal

Elastomeric Cementitious Coating

Admixtures

Surface Treatments

Protective Coatings

Concrete Repairs

Industrial Flooring

Grouts & Anchors,

Adhesives,

Water Proofing

Sealants

Description

Ultra Seal is a two part acrylic polymer modified cementitious coating. It is supplied in a pre-packaged form. This product is designed to be mixed easily on site using a slow speed drill fitted with a mixing paddle and then applied to the substrate using a brush, roller, trowel or spray. The finished coating is of a slightly granular texture.

Primary Applications

Ultra Seal is an elastomeric cementitious coating specially designed for roof, Wooden structures, Plywood, Basements, Canal lining, Water tanks, Roof gardening waterproofing, Shell roofs, swimming pools, water treatment plants, dead walls etc.

Ultra Seal is suitable for use on all types of structures in industrial, commercial and residential areas including those situated in coastal environments.

Ultra Seal can be used on concrete, wood, ply, brick and block work, is equally suited for both new and existing structures and provides a durable, flexible waterproof coating suitable in accepting light foot traffic.

Benefit and Features

- Waterproof
- Allows water vapor to escaped from the structure.
- Highly resistant to the effects of long term weathering, durable in all climatic conditions.
- Non-toxic
- Excellent bond to concrete, wood, plywood and masonry.
- Minimum surface preparation required.
- Flexible.
- Designed to accept light foot Traffic.
- Does not require over coating.

- Harmless for food storage
- tanks reservoirs etc.

Technical Support

Ultra Chemical offers a technical support service to end-users and contractors, as well as on-site technical assistance.

Ultra Chemical offers a comprehensive range of high performance, high quality repair and maintenance construction products.

Design Criteria

Ultra Seal is designed to be applied at a minimum thickness of 1mm. This can generally be achieved in two applications. It is strongly recommended to apply a second application of Ultra Seal on that surface, which will be subject to pedestrian traffic. The total dry film thickness with a second application is expected to be not less than 1mm.

Properties

Typical properties of mixed material:

Pot Life at 20°C:	1 hour
Pot Life at 35°C:	30 Minutes
Colors:	Grey & White
Mixed Density:	1750 Kg/m ³
Minimum	5°C

Application temperature:

Application Instructions

Preparation: All surfaces, which are to receive the coating, must be free from contamination such as oil, laitance, grease, wax, dirt or any other form of foreign matter, which could affect adhesion. Typically, using high-pressure water jet or grit blasting can clean concrete surfaces. Spilled surfaces Or those containing large blowholes, cracks or other such defects, Should be repaired using the appropriate grade of concrete repair mortar. For further advice on suitable repair mortars, contact the local Ultra Chemical office.

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Mixing: The liquid polymer is poured from the plastic container into a plastic or metal drum having a volume of at least 25 liters. Then powder component is gradually added whilst mixing with a slow speed drill fitted with an approved mixing paddle. Mixing must be continued until lump free slurry is obtained. This should take a minimum of three minutes to a maximum of five minutes.

Application: Pre-dampen the substrate surface with water using a brush or spray bottle. High porosity substrates will require more dampening than dense substrates. Whilst the surface is damp, apply the material using a soft bristled brush (120mm-200mm wide) or towel to achieve a minimum wet film thickness of 1mm. Application may also be made by roller, however, it is recommended to finish the surface with a trowel for best results.

Note: Wooden and ply structures no dampness required before coating.

The first coat should be allowed to cure for a minimum of 5 hours at 20°C or 3 hours at 35°C prior to a second application, should it be required. This should also be applied to a minimum wet film thickness of 1mm. Pre-dampening of the substrate is not necessary prior to applying the second coat.

Spray Application: For spray application the substrate should be prepared in the same manner as for brush application. The required film thickness can be achieved in one application.

Please note: The actual coverage rate of Ultra Seal will vary dependent on the texture and porosity of the substrate. The coverage figures for liquid products are theoretical, due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced.



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Storage

Shelf life is twelve months in unopened packs stored below 35°C in a shaded environment. The liquid component must not be allowed to freeze. If stored at high temperatures the shelf life will be reduced.

Precautions

Ultra Seal powder is irritating to the eyes, respiratory system and skin. Avoid inhalation of dust and wear suitable respiratory protective equipment. Ultra Seal liquid is not classified as dangerous.

Ultra Seal when mixed, becomes highly alkaline, wear suitable protective clothing, gloves and eye protection.

For both components and mixed material, avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Fire: Ultra Seal components are non-flammable.

Cleaning: Immediately after application is completed clean all tools and equipment with clean water. Hardened material can only be removed by mechanical means.

Limitations

Ultra Seal should not be used when the temperature is below 5°C and falling. Do not proceed with application when rainfall is imminent unless in a sheltered or protected location. The product should not be exposed to moving water during application.

Additional Information

Ultra Chemical manufactures a wide range of products specifically designed for the repair and refurbishment of damaged reinforced concrete. This includes hand-placed and spray grade mortars, fluid micro-concretes, chemical resistant epoxy mortars and comprehensive package of protective coatings.

In addition, a wide range of complementary products are available. This includes joint sealants, waterproofing membranes, and grouting, anchoring and specialized flooring materials.

Ultra Chemical has produced several educational training videos, which provide more detail about the mechanisms, which cause corrosion within reinforced concrete structures and the solutions, which are available to arrest or retard these destructive mechanisms. Further information is available from the publication "concrete Repair and Protection The systematic approach" available in seven languages formats.

For further information about products, training videos or publications, kindly contact the local Ultra Chemicals office.

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

Coverage

Supply:
Powder component: 11 Kg Bag
Liquid component:
5 Liter container
Coverage at 1mm thickness:
12-15 m² per 16 kg kit

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