



# Ultra Seal Flex

## High Elastomeric Waterproofing System

### DESCRIPTION

Ultra Seal Flex is a single component; water based modified acrylic/synthetic rubber emulsion. Ultra Seal Flex contains no bitumen or coal tar and will not cause stain to marble, ceramic tiles or tile grouts. Ultra Seal Flex has more than 500% elongation, and it is non-flammable, hygienic and non-toxic. Ultra Seal Flex is a seamless and therefore eliminates potential failure due to poor joints.

### PRIMARY APPLICATIONS

Ultra Seal Flex is suitable for substrates such as plaster, concrete, pours stone, brick and masonry, fiber sheet, asbestos, ply wood, pre-fabricated metallic structure, concrete shell roof, precast slab structure commercial and residential areas including those situated in coastal environments.

### BENEFITS AND FEATURES

- High elongation and tensile strength to withstand movement with in the substrate and high stress areas.
- 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, steel and masonry, fiber sheet, asbestos, ply wood, pre-fabricated metallic structure.
- Easily applied using a brush or roller eliminates potential failure due to poor joints. Ideal for areas that requires a lot of detailing work.
- Designed to accept light foot Traffic.
- Does not require over coating

### TECHNICAL SUPPORT

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

### DESIGN CRITERIA

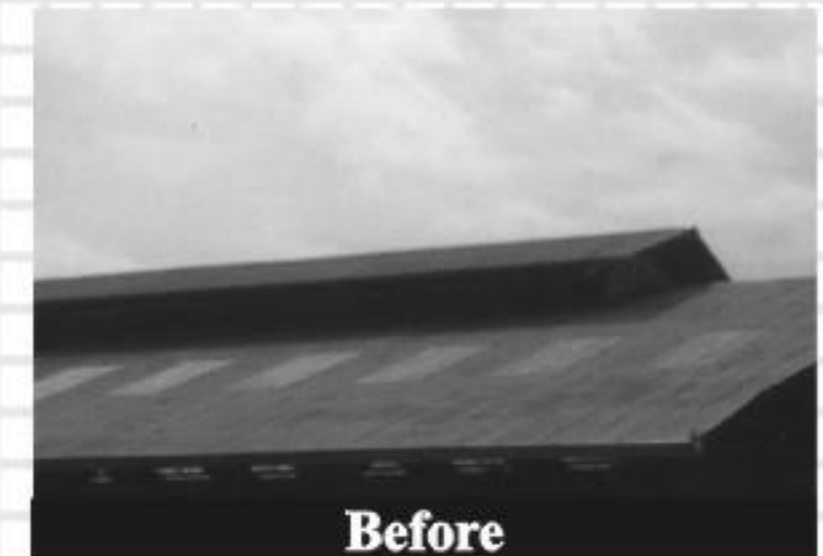
Ultra Seal Flex is designed to be applied at a minimum thickness of 1mm. This can generally be achieved in two applications. It is strongly recommended to apply a second application of Ultra Seal Flex on roof areas, which will be subject to pedestrian traffic. The total dry film thickness with a second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

Color	White
Packing	16 Kg
Shelf Life	2 years in unopened pack
Solids (by vol.)	59%
Drying Times.	1-2 hours for roofing applications.
Dry Film thickness	0.8 to 1.0 mm
Elongation (ASTM D412)	527 % normal (under force)
Tensile Strength	7.79N/mm <sup>2</sup>
Crack Bridging -2 mm (ASTM C836)	No Cracks
Water vapour transmission (ASTM E 96)	116.82g/m <sup>2</sup> . 24 hours.
Water Penetration (DIN 1048: Part 5)	No Penetration

### 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.



Before



After

**Application:** After preparation of surface apply the material using a soft bristled brush (120mm-200mm wide) or towel to achieve a minimum wet film thickness of 1mm.

The first coat should be allowed to cure for a minimum of 3 hours at 20°C or 2 hours at 35°C prior to a second application. This should also be applied to a minimum wet film thickness of 0.5mm.

### Storage

Shelf life is twelve months in unopened packs, stored below 35°C in a shaded environment.

**Fire:** Ultra Seal Flex components are non-flammable.



# Ultra Seal Flex

## High Elastomeric Waterproofing System

**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 Flex 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.



Before



After

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

### Health & Safety

As this product is water based, it is non-flammable and of low toxicity, prevent contact with skin, eyes etc. Spills can be removed with water or by using sand to absorb the paint. Once dry it can be disposed of in the normal way. Dry paint can be removed from skin by using warm water and soap. Provide adequate ventilation when using this product in confined areas.

### Coverage

Coverage at 1mm thickness:  
10-12 Sft. /Kg  
Or  
120 - 150 Sft / 16 Kg.

Coverage rate depends upon surface condition.

**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 to 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 to 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