



Description ULTRASEAL N® is a capillary waterproofing formulation of proprietary blends of moisture active chemical, quartz, sand and cement. The chemical contained in ULTRASEAL N® formulations required the presence of moisture for the chemical reaction to take place and in combination with “free lime”, the chemical in ULTRASEAL N® form long chain complexes which crystallize in the capillaries

USE

To protect concrete and mortar moisture and water proof Improve adhesion between topping coating and concrete or mortar Recommended for area such as; Water reservoir, water tower, canals, concrete pipes, sewage and water treatment plant, sea wall, kitchens ,bathrooms ,bridge and decks etc.

ADVANTAGES

Ready to use by only mixing with water Can be applied to damp concrete with no standing water. Non-toxic and US EPA –certified for use with potable water. Cost effective way of waterproofing system. The crystallization reaction between ULTRASEAL N® with free lime and calcium hydroxide in cement will form the crystal to fully block the capillary in the concrete and mortar. It gives permanent moisture and water proof. Can be used both positive and negative side protection.

PACKAGE

20 kg Kraft Bag

STORAGE

ULTRASEAL N® has a shelf life of 24 months in unopened Condition and kept in a dry store.

COVERAGE

ULTRASEAL N® Concentrate: Brushing: 1.0 - 1.5 kgs. /m²/layer Trowel: 2.0 – 2.5 kgs./m²./layer

PROPERTIES

The values given below are average figures achieved in laboratory test. Actual values obtained on site may show minor variations from those quoted. Confirm to EN 1504-2

Appearance	Grey Powder
Density (water added)	2.02 kg./m ³
Initial Setting Time @ 30 °C	90 min. (approx.)
Final Setting Time @ 30 °C	120 min. (approx.)
Bonding Strength @7days	1.7 N/mm ²
Permeability-pressure applied on positive side	8 Bar
Permeability-pressure applied on negative side	14 Bar
Hydrostatic Pressure Resistance	8 Bar

- Instruction for use Ensure that all concrete and mortar surface are clean and free from dust, laitance, oil, and grease
- Pre-water on the surface until the surface is saturated
- Remove the excess water (the surface must be damp but no standing water)





- Mix ULTRASEAL N® 1 bag, 20 kg. with clean water approximately 7-8 liters. For vertical applications water should be reduced to prevent sagging.
- Mix with low speed (60 rpm) mechanical mixer at least 3 min. until homogenous
- Can be applied by brush roller or trowel
- 2 coats are recommended
- For the coating application the 1st and 2nd coat should be applied right angle to the first.
- The second coat should be applied when the first coat is dry enough, approximately after 3-4 hrs.
- ULTRASEAL N® is a cement based product; it will cure and harden in the same way with concrete. The applied surface must be damp or cover with polyethylene sheet at least 5 days
- For New Concrete: ULTRASEAL N® can be applied immediately after the formwork has been removed.

For Exist Concrete: If there are static crack more than 1 mm. widths, should be repair with RPM 601 and DuraShock. If there are moveable cracks which should be repaired with Drylex® PU injection system before applying Crystal Seal.

TECHNICAL SUPPORT

ULTRASEAL N® offers a comprehensive range of high performance, high quality flooring, jointing and repair products for both new and existing floor surfaces. In addition, the company offers a technical support packages to specifiers, end-users and contractors, as well as on-site technical assistance.

ADDITIONAL INFORMATION

ULTRASEAL N® manufactures a wide range of those complementary products which include:

WATERPROOFING MEMBRANES & WATERSTOPS

Joint sealants & filler boards
Cementitious & epoxy grouts
Specialized flooring materials
Fireproof coating and systems
Concrete admixture
Repairing material