

# TECHNICAL DATA

## PRODUCT DATA SHEET

**PRODUCT NAME: BLUEMAX Cementitious Waterproofing 2(k)**  
**Acrylic reinforced TWO PACK CEMENTITIOUS WATERPROOF COATING**

**MANUFACTURER:**  
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## DESCRIPTION

BLUEMAX CEMENTATIOUS WATERPROOFING (2K) is a two component acrylic modified cementitious coating that requires only on site mixing forming the ideal product to waterproof and resurface concrete, masonry and most other construction materials.

BLUEMAX CEMENTATIOUS WATERPROOFING (2K) provides an effective barrier to waterborne salts and atmospheric gases.

Fluid applied BLUEMAX CEMENTATIOUS WATERPROOFING (2K) provides a hard touch seamless, waterproof membrane for Roof's and foundation protection.

## APPLICATION

- Simple application by stiff brush, roller or trowel, it forms a waterproof, flexible, trafficable coating.
- To reface and even out variations in concrete surfaces
- As a waterproof lining for water retaining structures
- For coating seawater channels
- Sealing and Coating tie bar holes to ensure water tightness
- For waterproofing & protection against brackish water
- To provide foundation protection
- As a Waterproof coating for roofs
- As a backing to marble and granite to prevent water ingress and thus alleviate surface staining.
- For fixing tiles in water retaining structures
- To provide protection to concrete surfaces from carbonation and chloride attack
- For use on pedestrian walkways in marine areas.

## ADVANTAGES

- A 1 mm coating provides anti carbonation cover equivalent to over 80 cm of concrete.
- Waterproof resists up to 7 Bars (70 meter head) of pressure (The degree of resistance to water under pressure depends on the coating thickness).
- Excellent adhesion. Bonds to porous and non-porous surfaces.
- Flexible
- Nontoxic ideal for contact with potable water
- Trafficable pedestrian
- Breathable – whilst repelling water, allows substrate to breathe
- High resistance to carbon di-oxide and chloride iron diffusion

BLUEMAX CEMENTATIOUS WATERPROOFING (2K) can be applied to 24 hour old concrete thereby giving immediate protection.



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## FEATURES

A color matching service is available for special colors, based on minimum quantity orders.

BLUEMAX CEMENTATIOUS WATERPROOFING (2K) is composed of specially selected cement, Silica sand reactive fillers supplied in powder form together with a liquid component of blended acrylic co-polymers and wetting agent.



## CHLORIDE ION DEFFUSIVITY

BLUEMAX CEMENTATIOUS WATERPROOFING (2K) provides an effective barrier to water borne salts such as chlorides and sulphates. Independent assessment has shown that even after 190 days constant immersion BLUEMAX CEMENTATIOUS WATERPROOFING (2K) eliminates Chloride, diffusivity totally.

## CHEMICAL RESISTANCE

BLUEMAX CEMENTATIOUS WATERPROOFING (2K) has outstanding wear and weather resistance and good chemical resistance to gasoline, diesel, oil, sodium hydroxide, calcium chloride, and de-icing salts.

BLUEMAX CEMENTATIOUS WATERPROOFING (2K) coated surfaces exhibit good resistance to mild acids.

## ANTICARBONATION COATING

BLUEMAX CEMENTATIOUS WATERPROOFING (2K) is an extremely effective barrier to atmospheric acidic gases which cause carbonation in concrete structures.



BLUEMAX CEMENTATIOUS WATERPROOFING (2K) at an applied rate of 2 Kg/m<sup>2</sup> gives an air diffusion equivalent for carbon dioxide ® of 357.5 meters.

The accepted minimum value of R is 50.

## DIRECTION FOR USE

- Surface preparation: As with all coating systems, surface preparation is of prime importance. Remove all grease, oil, dust etc.
- Spalled concrete should be cut back to sound concrete and made good with suitable cementitious repair mortar. Conventional concrete curing compounds should be removed before application. Roofing tiles should be firmly bedded and grouted before application.

## MIXING

BLUEMAX CEMENTATIOUS WATERPROOFING (2K) supplied in pre-measured units and should be mixed on site utilizing clean containers. Slowly add the powder to the liquid and mix, using a slow speed drill fitted with a suitable paddle. Mix and use. Do not mix more material than can be used in one hour.

## NOTE

Although BLUEMAX CEMENTATIOUS WATERPROOFING (2K) is supplied in pre-measured packs. Part packs can be used by mixing 2 to 2.59 volumes of powder to 1 volume of liquid. Mix thoroughly and keep mixed during application. DO NOT RETEMPER WITH WATER.



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## APPLICATION

Damp down the concrete surface with clean water. Whilst damp, but free from standing water, apply using a short, stiff bristle brush or roller. Trowel application can be undertaken as necessary. For heavy 6-10 mm depressions, honeycombs etc. use less gauging liquid and mix to the desired consistency. Where more than coat is found necessary to achieve the desired thickness, apply the second or subsequent coats after the previous coat has dried.

For general resurfacing, each coat should be of minimum of 1 mm thick.

TYPICAL PROPERTIES	
Density	1800 Kg/m <sup>2</sup>
Toxicity	Non Toxic
Water Penetration (Din 1048)	7 Bars – No Leakage (2 mm DFT)
% of Elongation	>5% (Un bonded)
Water Vapor Coefficient	>3.64 X 10 <sup>-7</sup> cm/sec
Initial Surface Absorption	>95% reduction against control
CO2 Diffusion Resistance	Sc > 89cm (1 mm DFT)



## EFFECTIVE OF WATER PRESSURE

BLUEMAX CEMENTATIOUS WATERPROOFING (2K) provides a protective waterproof coating. When tested to DIN 1048. CHMCRETE CWP to water under pressure depends on the coating thickness. These application rates are for continuous water pressure environments.

For 3 Bar Pressure, the application rates is 4 Kg/m<sup>2</sup>  
For 7 Bar Pressure, the application rates is 6 Kg/m



## ADDITIONAL FINISHES

BLUEMAX CEMENTATIOUS WATERPROOFING (2K) provides an aesthetically pleasing surface finish and does not normally required further surface finishes.

BLUEMAX CEMENTATIOUS WATERPROOFING (2K) is however compatible with most forms of subsequent coatings.

## COVERAGE

1kg per M<sup>2</sup> per coat

## PACKING

Available in 3 kg & 15 kg kits.

1)Component A (Powder) – 10.0Kg Component B (Liquid) – 05.0Kg	In 15 kg closed pack.
2)Component A (Powder) – 02.0Kg Component B (Liquid) – 01.0Kg	In 3 kg closed pack.



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## HEALTH & SAFETY

Care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention.

## TECHNICAL SERVICE DEPARTMENT

Bluemax Polymers is pleased to offer full technical support of specific application.

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