

BONDITAQUAGUARD 2K

(Two component high performance elastomeric cementitious waterproofing coating)

PRODUCT DESCRIPTION

- Bondit Aquaguard 2K is a Two-Component system obtained by mixing component A and component B in 3:1 ratio.
- Component A comprises of dry mix of bluish grey colour containing high-performance hydraulic cement binders and aggregates, high-performance polymers and specially selected modifiers.
- Component B is a white emulsion containing synthetic acrylic resins and modifiers.
- It requires only the addition of water at the job site.

FEATURES & BENEFITS

- Resistant to both positive & negative water pressure.
- High elasticity prevents drying shrinkage & hair-line cracks.
- High performance water isolation.
- Forms superb isolation layer under ceramic and screed due to its flexibility and high bonding property.
- Highly Resistant to the ingress of carbon dioxide and chloride ions.
- High water vapor permeability allows the concrete to breathe. Recommended for old/damp buildings.
- Resistant to UV radiation & weathering
- Safe for waterproofing of reservoirs with drinking water.
- Seals lightweight aerated blocks and pre-cast joints.
- Low emission of VOC.
- Meets National & International Standards.

AREA OF APPLICATION

- Indoor and outdoor for horizontal and vertical applications,
- Groundwork isolation, retaining walls and basement isolation subject to slight vibration.
- Elevator pits
- Water tanks and swimming pools
- Terrace roofs
- Irrigation channels, manholes, and concrete pipes,
- Sunken areas such as bathroom, kitchen, balcony,

SUBSTRATES

- Concrete, cement screeds and mortars
- Anhydrite screeds
- Cement, cement-lime and gypsum plasters
- Walls made of cellular concrete, silicate brick or hollow blocks, ceramic brick or hollow blocks
- Gypsum blocks



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STANDARDS COMPLIANCE

EN 14891

TECHNICAL DATA

Mixing Ratio

Bondit Aquaguard 2K Components	Brush Application (Individual Pack)
Part-A (Powder Component)	15kg
Part-B (Liquid Component)	5kg
Water	3 litre

Physical Characteristics

Property	Typical Values
Mixed Density(Brushable Consistency)	1650 - 1700 kg/m ³
Pot Life	30 minutes
Substrate and Ambient Temperature during application	> +8°C
Max. Single Coat Thickness	2mm
Total Thickness of Sealing Coat	2-3mm

Performance Characteristics

Test Conditions /Method	Test Method	Typical Values
Tensile Strength, N/mm ²	ASTM D 412	≥ 1.5
Adhesion to Concrete	ASTM D 4541	≥ 1.2N/mm ²
Elongation at break	ASTM D412	68%
Crack Bridging Capability, mm	EN 1062-7(A)	1 mm
Depth of water penetration	EN12390-8	NIL
@ 5 Bar, mm		
Water Vapour Transmission, g/m ² /day	ASTM E96	29

APPLICATION INSTRUCTIONS

Surface preparation

- All damaged, defective, deteriorated or hollow sounding areas must be removed and made good before proceeding.



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- Clean all holes and voids and fill with appropriate mortar from Bondit to provide a smooth and levelled surface; mortar joints should be flush pointed.
- Dusty substrates must be grinded and made free from dust.
- The substrate must be clean and free from all traces of surface laitance and contamination such as dust, dirt, waxes, oils, bitumen, old adhesives, paint, grease, weak cement screeds and renders, shutter release and curing agents, sealing compounds, etc. by wire brushing and pressure washing.
- Cut back any protrusions. Organic or fungal growth must be removed using an effective fungicide.
- The substrate must have a moisture content of 5% or less before starting the waterproofing.



Mixing

Bonditaquaguard 2K can be mixed with a mechanical mixer with a high shear mixer or a suitable drum mixer that creates a forced action mixing.

- Use slow speed an electric drill fitted with a spiral paddle (approx.400 rpm)
- Maintain the mixing ratio as given
- Only mix with clean potable water.
- Place 3/4 of desired mixing water, start mixer then slowly add the Part-B (Liquid Component)
- To this mix, while stirring with a mixing paddle attached to a drill, slowly add the Part-A (Powder Component). To this mix add the remaining 1/4 water until the desired consistency is achieved,
- Mix for 3 - 5 minutes to ensure a uniform lump free consistency.
- Leave it for Slaking. Approx.5 minutes.



How to apply

- Pre-wet the surface with clean water. Do not allow pooling or ponding.
- Apply the first coat of Bonditaquaguard 2K mixed materials onto the prepared surface using a brush, trowel, squeegee or roller in a stifling action.
- Apply the second coat finish depending on site conditions and film thickness required.
- Before applying the second coat in alternate direction, leave the first coat to dry for approximately 2 to 4 hours depending on the thickness.
- If over coating is done more than 24 hours after applying the previous coat, or the previous coat has already dried out, the surface must be pre-wetted again.



NOTE: In order to realize all the product advantages, for high quality installation and best performance, it is necessary to follow the best installation practices.

Clean up

Wash all tools and equipment with fresh, clean water immediately after use. The residues of Bonditaquaguard 2K can only be removed mechanically.



COVERAGE

Application Thickness	Coverage
1mm (Brush Application)	12-14m ²

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PACKING SIZE

Pack Size	20kg
Part-A (Powder Component)	15kg
Part-B (Liquid Component)	5kg

SHELF LIFE

Twelve months from the date of manufacture when stored in original, unopened package and under normal warehouse conditions.

PRECAUTIONS

- Use only when the product, air, and surface temperature are above 8°C for a minimum of 24 hours.
- Mortar temperature should be maintained from 10°C – 40°C to achieve specified result.
- Do not dilute Bonditaquaguard 2K by adding water as it will affect the mortar performance,
- Do not mix more Bonditaquaguard 2K than can be placed in 30minutes. Do not add additional water other than specified. Discard any mortar that has stiffened or is unworkable.

IMPORTANT ADDITIONAL INFORMATION

- Not treated surfaces should be protected against soiling
- Low temperature and increased humidity extend the time of mortar setting. Avoid application in strong sunlight
- Any passages exposed to water under pressure should be protected with twisted ring sealers
- The setting product is sensitive to frost. The waterproofed places should be protected during setting against precipitation within min. 12 hours.
- Rooms where Bonditaquaguard 2K has been applied should be aired for min. 28 days before use. In case of applications on floors this time can be reduced to 10 days.
- Water reservoirs designated for drinking water should be washed with water after the product stabilization.

HEALTH AND SAFETY

Avoid contact with skin. Protective gloves and clothing are recommended when mixing or using this product. Please refer to full MSDS (material safety datasheet) for this product, which is available from Bondit upon request.

TECHNICAL SERVICE

Technical information and guidance regarding BONDIT range of admixtures, repairs and bonding, waterproofing systems, epoxy industrial flooring systems etc, will be available from the technical services department, BONDIT CONSTRUCTION CHEMICAL PVT LTD.

Important note

BONDIT products undergo high standard quality checks and every reasonable precaution is taken in the manufacture of all products. BONDIT continuously strive to ensure the products, recommendations, specifications & information given is reliable, correct and accurate. No specific guarantee can be assured as product performance depends not only on quality but also on many other factors which are not under our control. The customer should make his own trials to determine the compatibility of the product for his own purpose. All products are sold subject to our standard terms and conditions of sale.

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