



BONDIT AQUAGUARD 2K

**HIGH PERFORMANCE ELASTOMERIC CEMENTITIOUS WATERPROOFING COATING
TWO-COMPONENT SYSTEM**

Nexgen Construction Supplements



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HIGH PERFORMANCE ELASTOMERIC CEMENTITIOUS WATERPROOFING COATING

[TWO-COMPONENT SYSTEM]

PRODUCT DESCRIPTION

Bondit Aquaguard 2K (High Performance Elastomeric Cementitious Waterproofing Coating) is a Two-Component system obtained in the process of mixing Component-A (Dry Mix of Bluish Grey Colour containing high-performance hydraulic cement binders, high quality aggregates and high-performance polymers and specially selected modifiers) and Component-B (White Emulsion containing Synthetic Resins and modifiers) in 3:1 ratio. It requires only the addition of water at the job site.

FEATURES & BENEFITS

- Resistant to both Positive & Negative Water Pressure.
- High Elasticity-Will bridge Drying Shrinkage & Hair-Line Cracks.
- Provides highly performing Water Isolation.
- Forms a perfect Isolation Layer under Ceramic and Screed due to its Flexibility and High Bonding property.
- Highly Resistant to Carbon Dioxide and Chloride Ions.
- High Water Vapor Permeability allows the Concrete to breathe. Recommended for old/damp buildings.
- Resistant to UV Radiation & Weathering
- Holds Hygienic attest for contact with drinking water – allows for safe waterproofing of reservoirs with drinking water.
- Seals lightweight aerated blocks and pre-cast joints.
- Low emission of VOC.
- Meets National & International Standards.

WHERE TO USE

APPLICATIONS AREAS:

- Indoor and outdoor for horizontal and vertical applications,

- Groundwork isolation, retaining walls and basement isolation subject to slight vibrance,
- Elevator pits,
- Water tanks and swimming pools (under the coverage),
- Isolation of terrace roofs (under the coverage),
- Irrigation channels, manholes, concrete pipes,
- Wet areas such as bathroom, kitchen, balcony,
- Facilities such as spa and hammams,
- To protect concrete from water, carbonation and salts.

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 etc.,

STANDARDS COMPLIANCE

EN 14891

SUPPLY

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

COVERAGE

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

Coverage will vary depending upon the required consistency.

SHELF LIFE

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

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

WORKING PROPERTIES

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

Test Conditions /Method	Test Method	Typical Values
Tensile Strength	ASTM D412	≥ 1.8 N/mm ²
Adhesion to Concrete	ASTM D4541	≥ 1.2 N/mm ²
Crack Bridging Capability	ASTM C836	Up to 1.25mm
No Crack after 10 Cycle of Stretching and Closing at 1mm Width	ASTM C836	Pass
Water Vapour Transmission	ASTM E96	<15g/m ² /24 hours

PLEASE NOTE: The information given in this chart is based on our best experience and indicative only. It must in any event be verified by the end user, who assumes all liabilities deriving from utilization of the product.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

All damaged, defective, deteriorated or hollow sounding areas must be removed and made good before proceeding. Chase out all holes and voids and fill with appropriate Mortar from Bondit to provide a smooth and level surface; mortar joints should be flush pointed. Dusty substrates must be grinded and dedusted.

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 waterproofing is commenced.

MIXING

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

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

APPLICATION

- Pre-wet the surface with clean water. Do not allow pooling or ponding.
- Apply the first coat of Bondit Aquaguard 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 overcoating 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.

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 results,
- Do not retemper Bondit Aquaguard 2K by adding water as it will affect the mortar performance,
- Do not mix more Bondit Aquaguard 2K than can be placed in 30 minutes. 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 Bondit Aquaguard 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.

CLEAN UP

Wash all tools and equipment with fresh, clean water immediately after use. The residues of Bondit Block Bond set mortar can only be removed mechanically.

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 data sheet) for this product, which is available from Bondit upon request.

CAUTION!



HAZARD STATEMENTS:

Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause respiratory irritation.

PRECAUTIONARY STATEMENTS:

Wear protective gloves/protective clothing/eye protection/face protection/respiratory protection. Avoid release to the environment.

IF SWALLOWED: Rinse mouth with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

IF ON SKIN (OR HAIR): Remove all contaminated clothing immediately. Rinse skin with water/ shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a poison centre/doctor if you feel unwell.

STORAGE: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

DISPOSAL: Dispose of contents and container in accordance with all local, regional, national and international regulations.

SDS is available from www.bondit.in

TECHNICAL SUPPORT

Technical information and guidance regarding BONDIT range of admixtures, repairs and bonding, water proofing 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.

BONDIT CONSTRUCTION CHEMICAL PVT LTD.

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