

Technical Data Sheet

White Sand Ultra Bond

High-efficiency multipurpose bonding agent & admixture

Product Description

WHITE SAND ULTRA BOND is a PVA-based emulsion formulated for use as a bonding agent, admixture, mortar additive, primer, and sealer.

WHITE SAND ULTRA BOND increases the adhesion, flexibility, tensile strength, and impact resistance of mortars and cement mixes.

WHITE SAND ULTRA BOND formulation is high in solids and can be diluted at various ratios depending on the required application. This means that WHITE SAND ULTRA BOND is very economical for various applications. Can be used for both internal and external applications.

Uses and Key Functions

- additive to sand/cement for concrete patching applications.
- Additive in sand/cement for rendering applications.
- Additive in mortars for tiling over concrete, render, blockwork, and rendered brickwork surfaces.
- Slurry into neat cement for bonding new sand/cement toppings onto concrete surfaces.
- Used as an admixture with plasters, lime/sand cement screeds, renders, mortars.
- Used as an admixture with cement grouts when diluted in 7 : 1 ratio with potable water.
- Used as a bonding agent and can be sprayed or brushed on green substrates to improve the bonding of plasters and patching compounds.

Product Technical Data

Type	Formulated copolymer Emulsion
Appearance	Milky white liquid
Density @ 25 C	1.04 kg/l Approx.
Solid Content	48.0 ± 1.0 %
pH @ 25 C	5 - 7
VOC Weight%	0.1 Approx.

Features and Advantages

- Multipurpose usage.
- It can be used as a bonding agent & admixture
- Enhances bonding of plaster, sand/cement screed, render, etc.
- Improves hydration & curing when added to cement-based mixes.
- Improves compression strength & abrasion.
- It adheres well to various construction materials, including concrete, stone, etc.
- Ensure brighter & long-lasting color to architectural finishes.
- Reduces shrinkage & cracks.

Technical Data Sheet

White Sand Ultra Bond

High-efficiency multipurpose bonding agent & admixture

Application Instructions

Surface Preparation

Clean the surface well and free it from loose materials. Eliminate inconsistent parts, varnishes, grease, laitance, and algae through sandblasting or brushing before applying WHITE SAND ULTRA BOND.

Application

WHITE SAND ULTRA BOND is a highly concentrated material. Make sure that the correct dilution ratio is followed to avoid a stiff & fast drying mixture.

Follow the dilution ratio required for each type of premixed mortar.

As Admixture

Dilute 1 part WHITE SAND ULTRA BOND with 7 parts water. Mix thoroughly to obtain uniform consistency liquid. Add the diluted WHITE SAND ULTRA BOND to pre-blended sand/cement plaster, mortar, or other dry mixes. Mix for 3-4 min using a mechanical mixer at low speed. Let the mixture stand for 5 min and mix again briefly to achieve a homogeneous lump-free mixture.

As Bonding Agent

Dilute 1 part WHITE SAND ULTRA BOND with 3 parts water. Mix thoroughly to obtain uniform consistency liquid. Apply using a brush or spray directly onto the substrate. If using a hand pump, spray at a rate of 15 m²/liter.

While the bonding agent is still wet, immediately apply plaster, render, mortars, etc.

Note: WHITE SAND ULTRA BOND should remain tacky when applying top coat finishes.

Mix Design

A wide range of mix designs is achievable using WHITE SAND ULTRA BOND.

However, typical mix designs are detailed as follows:

Rendering Mix

1 part of WHITE SAND ULTRA BOND + 4 parts water. 3:1 sand/cement mix.

Apply with a flat trowel onto the surface to be rendered.

Priming and Sealing Mix

1 part of WHITE SAND ULTRA BOND + 3 parts water. Apply with a broom/brush onto the floor or wall.

Concrete Patching Mix

1 part of WHITE SAND ULTRA BOND + 4 parts water. 3:1 sand/cement mix. Apply with a flat trowel or spatula to patch holes or depressions in concrete or rendered surfaces after priming.

Joinery

Neat WHITE SAND ULTRA BOND can be used to bond timber to timber.

Apply with a brush or roller.

Note: The above dosage rates and mix ratios are a guide only. It is the contractor's / user's responsibility to ensure that all the materials to be used are compatible and meet the design criteria and specification requirements.

Curing

Correct curing of WHITE SAND ULTRA BOND modified mixes is important.

Moisture-cure for at least 1 day and then allow to dry out slowly.

Watch Points

- Always use fresh cement and well-graded aggregate free of excessive fines.
- Keep mixing time to a minimum.
- modified mixes are deceptive in their workability. Avoid using excess water.
- Troweling should proceed with the work. Do not over-trowel and avoid re-troweling.
- Protect from too rapid drying out before troweling.

Cleaning

Clean tools with water before hardening.

Hardened material can only be removed mechanically.

Packaging

WHITE SAND ULTRA BOND is supplied in 20 Liters, and 5 liters drums.

Shelf Life and Storage

WHITE SAND ULTRA BOND has a minimum 12-month shelf life when stored in the original sealed container, in good warehouse conditions away from direct sunlight in ambient temperatures below 35 C.

Safety Precautions

WHITE SAND ULTRA BOND is a non-flammable material. WHITE SAND ULTRA BOND is not classified as a hazardous material under current legislation.

Unnecessary contact with the product is to be avoided and suitable gloves and goggles must be worn. Accidental contact of WHITE SAND ULTRA BOND to the skin or eyes should be washed off with clean water. In the event of prolonged irritation, seek medical advice.

Technical Data Sheet

White Sand Ultra Bond

High-efficiency multipurpose bonding agent & admixture

White Sand Product Quality

Ensuring the achievement of customers' requirements and conformance to national and international standards, all WHITE SAND products are developed and manufactured under the base of highly quality-oriented Product Development processes, and an independently standardized Quality Management System.

Technical Support

WHITE SAND assists its customers and gives site support, consultations, and technical advice on concrete repair, surface preparation and treatment, tile adhesive and tile grout selection, and tile installation techniques.

Additional White Sand Products

WHITE SAND produces a wide range of high-quality construction chemicals and specialty products including following product groups:

- Adhesives and Tiling Systems
- Waterproofing and Protective Coating Systems
- Concrete Repair & Restoration Systems
- Finishing & Paints Systems
- Admixtures for Mortar and Concrete
- Surface Treatments and Primers
- Industrial Flooring Systems
- Engineering Grouts and Anchoring Systems
- Resinous Protective Coating and Lining Systems

Disclaimer

The information given here is based on the best of our knowledge, good faith, experience and laboratory based results and therefore the results will vary depending on the real time application. Also, the values indicated in this Data Sheet here are subject to $\pm 10\%$ variance due to multiple factors. The performance of our Product depends on the workmanship/quality of application job at the site. Hence White Sand Company for Industry is not responsible for any sort of claims/disputes arising out of any negative results by using our ranges of products. White Sand Company for Industry is not held responsible for use of this product for applications other than specified and/or adopting any faulty application/curing methodologies. It is the user's responsibility to have through this Technical Data Sheet prior to applying our products and to ensure with White Sand Company for Industry that any product information is still prevailing at the time of application. Also the user must be sure that the product is suitable for the use intended and also applied it as specified while taking care of all precautionary measures. While all the products comply with the properties shown on current technical data sheets/brochures, White Sand Company for Industry does not warrant or guarantee the products' performance as it doesn't have any control over factors adopted during its actual application.



White Sand Co. for Industry

Jeddah, Saudi Arabia

info@whitesand.sa

www.whitesand.sa

