

Viacrete BONDING AGENT

PRODUCT DESCRIPTION:

Viacrete Unibond is a high-quality, Styrene Butadiene Rubber (SBR) latex emulsion designed to enhance the performance of cement-based systems. When added to cementitious mixes, it significantly improves adhesion, flexibility, waterproofing, and abrasion resistance. Ideal for bonding, repairs, and durable coatings, Viacrete Unibond is suitable for internal and external applications where durability, chemical resistance, and reduced permeability are essential.

Technical Details

Property	Value
Property	Result
Appearance	Milky white liquid
Base	Styrene Butadiene Rubber (SBR)
Specific Gravity	$\sim 1.02 \pm 0.02$
pH	7 – 9
Solid Content	$\sim 47\% \pm 2\%$
Bond Strength	Excellent
Shelf Life	12 months (in unopened container)
Packaging	1 kg, 5 kg, 20 kg plastic drums

KEY FEATURES & BENEFITS

- ✔ Improves Bond Strength – Enhances adhesion between old and new concrete
- ✔ Waterproofing Performance – Reduces water permeability in mortar and coatings
- ✔ Crack Resistance – Increases flexibility to reduce surface cracking
- ✔ Multipurpose Use – Acts as a bonding agent, repair modifier, and waterproof additive
- ✔ Durable & Tough – Improves abrasion and impact resistance in floor toppings
- ✔ Resists Dusting – Increases surface hardness and reduces wear
- ✔ User Friendly – Easy to mix and apply with cement/sand mixes
- ✔ Excellent Workability – Improves handling and finish quality

SUITABLE FOR

- ✔ Waterproof coatings for terraces, roofs, balconies, and basements
- ✔ Bonding agent for concrete overlays, plasters, and new-to-old concrete
- ✔ Cementitious repair mortars for vertical and horizontal surfaces
- ✔ Polymer-modified floor screeds and patching in industrial and residential areas
- ✔ Plaster and render modification to improve strength and flexibility
- ✔ Dust-proofing treatments for warehouse and factory concrete floors
- ✔ Masonry repairs and crack-filling applications

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Mixing & Application

1. SURFACE PREPARATION

- ✔ Clean the surface thoroughly; remove dust, oil, laitance, and loose material
- ✔ For repairs, cut back the damaged area to a sound base

2. PRIMING / BONDING SLURRY

- ✔ Apply bonding slurry (cement + Unibond) with a brush to the prepared substrate
- ✔ Apply fresh mortar, screed, or coating while slurry is still tacky

3. MORTAR APPLICATION

- ✔ Use mixed mortar or coating as per guidelines above
- ✔ Finish as required and cure properly to ensure long-term performance

COVERAGE

- ✔ Varies based on application and surface condition
- ✔ Approx. 3–4 m²/kg for two-coat waterproof coating (depending on porosity)

LIMITATIONS

- ✔ Not suitable for negative-side waterproofing or surfaces with active water leakage
- ✔ Do not use in permanently submerged areas like water tanks or swimming pools
- ✔ Must be mixed and applied at temperatures between +10°C and +40°C
- ✔ Not a standalone waterproofing product—must be mixed with cement/sand as directed

SAFETY PRECAUTIONS

- ✔ Use gloves and safety glasses during handling
- ✔ Avoid contact with eyes and prolonged skin exposure
- ✔ In case of contact, rinse with clean water and seek medical help if needed
- ✔ Keep out of reach of children

SHELF LIFE & STORAGE

- ✔ Store in cool, dry conditions, away from direct sunlight and frost
- ✔ Shelf life: 12 months from date of manufacture in sealed containers

MIXING GUIDELINES

Application	Cement	Sand	Unibond	Water
Bonding Slurry	1 part	—	1 part	0.25 part
Waterproof Coating (2 coats)	1 part	1 part	0.5 part	0.25 part
Repair Mortar / Screed	1 part	3 parts	0.2 part	As required