



E 135

Admixture and Polymer Bonding Agent

Pack Size

200Kg, 20Kg & 5Kgs

TDS Technical Data Sheet



Product Description

E 135 is a versatile, concentrated SBR (Styrene Butadiene Rubber) liquid polymer additive designed to significantly enhance the bond strength and flexibility of cement and sand mixes. Due to its water-resistant properties, E 135 can be utilized as a waterproofing sealer when combined with cement. It also serves as an effective admixture for renders, screeds, and other cementitious applications, improving their durability and performance. E 135 can be applied to damp (but not wet) surfaces and is suitable for both rendering and painting over.

Features

- High-performance polymer additive for cement and concrete mixes
- Water-resistant, making it suitable as a temporary waterproofing sealer on rooftops
- High strength, ideal for patching and feathering with minimal cracking
- Non-toxic and safe for use without Occupational Health & Safety concerns

Benefits

- Water-resistant, enabling use as a temporary waterproofing solution for rooftops and similar high-exposure areas
- High strength, making it perfect for patching mortars, coving areas, and other demanding applications
- Non-toxic formulation ensures no significant occupational health risks
- Reduces the water-to-cement ratio, resulting in stronger, more durable mortar and screed mixes

Typical Applications

- As a temporary waterproofing sealer in areas exposed to high moisture, such as rooftops, while new waterproofing membranes are being installed.
- As a slurry coat applied prior to rendering or topping surfaces.
- As an admixture for sand/cement mixes, particularly in repair mortars, fillets, coving, renders, and screeds.
- As a bonding bridge for new concrete applied over existing concrete surfaces.

Limitations

Do not use E 135 mortar for tiling over concrete slabs that are subject to rising damp or hydrostatic pressure without first priming with AT 107 Water-Based Epoxy Membrane in two coats at a coverage rate of 3 square meters per liter per coat. Refer to the AT 107 Water-Based Epoxy Membrane data sheet for detailed screed installation instructions. Protect E 135 from frost—do not allow it to freeze. Do not apply E 135 as a temporary waterproofing sealer if rain is expected. Do not apply if the surface temperature is below 10°C or above 35°C.

Basic Application Instructions

Surface Preparation

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E-135

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The surface to be treated should be clean, sound, and free from contaminants such as oil, grease, and laitance. New concrete should be allowed to cure for at least 28 days before applying E 135 as a water-resistant or binder coat. New brickwork, sand/cement render, or screeds should be left to cure for at least 7 days before applying the E 135 water-resistant or binder coat.

Mixing

For Temporary Waterproofing: Mix 1 part E 135 with 2 parts cement by volume. For Admixture in Render/Screed/Coving: Mix 1 part E 135 with 3 parts water and use this as the gauging water for a 3:1 or 4:1 sand/cement mix. For Binder Coat: Mix 1 part E 135 with 1 part water and 4 parts cement by volume.

Application Instructions

For Temporary Waterproofing: Mix E 135 with fine cement to a smooth consistency. Pre-moisten the concrete surface, then apply the first coat with a brush or roller to achieve a 1mm wet bed thickness. Allow the first coat to set, then apply a second coat at a right angle to the first to ensure complete coverage without pinholes.

For Slurry Coat: Mix to a thin consistency and apply the mixture to the surface using a brush, roller, or small broom. The maximum recommended thickness is 2mm. While the binder coat is still wet, apply the render or screed.

For Render/Coving: Apply a binder coat on the prepared surface. While the binder coat is still wet, apply the E 135 mortar mix with a wood float trowel, ensuring firm pressure to ensure good contact with the surface.

For Screed: A minimum thickness of 15mm is recommended when using diluted E 135 instead of water. For thicknesses greater than 40mm, reinforcing mesh is required. Apply the binder coat using a roller, brush, or flat trowel. Apply the screed mix while the binder coat is still wet, using a straight edge, trowel, or timber batten to level the screed. Ensure proper drainage slopes in wet areas and leave the screed with a wood float finish to create a key for tiling and waterproofing. If reinforcing the screed with mesh, apply the first layer of screed, lay in the mesh, and then apply the second layer. Do not place the mesh directly onto the substrate.

Drying Time

Approximately 16 hours at 23°C and 50% relative humidity when used for water-resistant or render/screed applications.

Coverage

Temporary Waterproofing: Approximately 12m² per 20 liters at 1mm thickness (2 coats).

Slurry Coat: Approximately 3m² per liter.

As a Render (15mm thick): Approximately 2m² per liter.

Physical Properties

Form:	Thin, white
liquid Specific Gravity:	1.0 kg/L
pH:	9-10
Tensile Adhesion over Concrete (7 days)	1.5 MPa
Hydrostatic Pressure Resistance:	50 psi (0.34 MPa)
Flexural Strength:	3.3 MPa
VOC Content:	32 g/L

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Data Reliability

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Regional Compliance

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

Legal Disclaimer

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.