bondera® screed

harb

SBR-based additive used as bonding slurry, screed modifier & sealer coat



Main features

- Excellent abrasion, oil & water resistance
- High compressive, flexural & tensile strength
- Reduced shrinkage & increased flexibility

About this product

A highly versatile solution in our product range. The SBR-based additive harb can be used as a bonding agent between screed, mortar and concrete, added directly to the screed mix to improve its strength and its resistance to abrasion, oil and water, or applied as a sealing coat.

Technical specifications

Compressive strength	C40 (40 N/mm²)
Flexural strength	F6 (6 N/mm²)
Adhesive strength	> 2.0 N/mm²
Working time	2 hours
Foot traffic	after 24 hours
Normal site traffic	after 72 hours

*Typical technical values achieved when harb is used as screed additive under construction site conditions at 5-30°C and 40-60% relative humidity.

Materials and standards

- CEM I or CEM II (A-L, A-LL, B-L, B-LL) following BS EN 197-1
- Aggregates following BS EN 13139
- Preliminary testing and suitability verification required prior to each use

Mix design: bonding slurry

	Volumes
Dosage harb	1
Water	3
Cement	6
Covered area	1 L / 6 m²

Mix design: sealer coat

	Volumes
Dosage harb	1
Water	3
Cement	-
Covered area	1 L / 10-20 m²

Mix design: screed

Screed category	Standard (STD)	Heavy duty (HD)
Sand (0-4 mm to BS EN 13139 Cat. 1)	200 kg	150 kg
Sand (5-8 mm to BS EN 12620)	-	50 kg
Cement	50 kg	50 kg
Dosage harb	5 litres	5 litres
W/C ratio	0.5 - 0.7	0.5 - 0.7
Application thickness	≥ 15 mm	≥ 30 mm

Subfloor pre-treatment

1. Proper subfloor preparation must be ensured by shot-blasting, milling or grinding.
2. The substrate must be dry to 75% relative humidity (RH) or lower as per standard (BS 8203), as well as clean, absorbent, load-bearing, firm and free of cracks.
3. Remove all dust, dirt, oil, grease, paint and weak surface laitance.
4. After preparation, the surface must then be cleaned and watered at least 24 hours in advance so that the substrate has absorbed sufficient moisture.
5. Avoid the formation of puddles.
6. The area of the substrate to be treated with harb as bonding slurry must be selected so that the new concrete, screed or mortar can always be applied wet-on-wet.

Mixing instructions and application: bonding slurry

1. Mix all components including harb as described in the bonding slurry mix design to form a brushable consistency.
2. Work the bonding slurry firmly into the prepared damp concrete or screed substrate using a stiff broom or brush to ensure complete contact with the pores.
3. Immediately cover the brushed-in bonding slurry with concrete, screed or mortar to prevent it from drying out prematurely.

Mixing instructions and application: screed additive

1. Fill the screed machine about half full with sand and the total amount of cement.
2. Add harb to the first mixing water (usually 5-10 litres) and then fill the machine completely.
3. In the meantime, gradually add the required amount of water until a semi-dry consistency is achieved.
4. Mix at least 2 minutes.

Mixing instructions and application: sealer coat

1. Mix harb and water as described in the sealer coat mix design to form a brushable consistency.
2. Work the sealer coat firmly into the prepared concrete or screed surface using a stiff broom or brush.

Construction site conditions

- The screed must be protected against excessively rapid drying caused by draughts, direct sunlight and low humidity.
- The screed must be protected from frost and water throughout the entire drying period.
- At temperatures below 5 °C, the setting of the binder (cement) is retarded or halted altogether.
- The screed surface must not be covered with sheeting, building materials (e.g. plasterboard) or the like, as this prevents the screed from drying out and can lead to inaccurate results when determining the moisture content.
- From the 2nd day after the screed has been laid, ventilation must be provided at least 3 times a day for 20 minutes in order to remove moisture in a controlled manner.
- Closed windows impede or prevent ventilation and considerably delay drying.

Residual moisture test

- Before laying the floor covering, the residual moisture content of the screed must be measured by the floor layer.
- BS 8203 recommends a maximum relative humidity of 75% before laying floor coverings.

Technical data

- Form: liquid
- Colour: white
- Density: 1.05 ± 0.02 kg/dm³
- Supply form: 10 litres, 20 litres, 1,000 litres
- Storage: store protected from frost, heat and direct sunlight
- Shelf life: at least 12 months (in sealed containers)

Safety and certificates

- Always observe general work hygiene when using our products.

Comments

The raw materials we use as well as the products we manufacture are subject to comprehensive internal quality control procedures and are regularly inspected. When using this product, no additives from other manufacturers may be mixed in or applied.

Before application, it must be ensured that both our products and the selected method are suitable for the specific site conditions. The quality of the screed is significantly influenced by the properties of the sand and cement, the correct mixing ratio, and proper installation in accordance with approved screed technology.
As we have no control over actual site conditions or the execution of the work, no liability claims can be derived from the information contained in this data sheet. Upon publication of this edition, all previous versions shall become invalid.

For advice or further information, please contact our technical team.

As of 02 November 2026