

Technical Data Sheet

StoCrete SBR HD

Standard polymer bonding agent and admixture based on styrene butadiene rubber



Characteristics

Area of application

- As a bonding slurries for floor toppings, renders and mortars to concrete substrate
- As a bonding aid for tiles and slip bricks
- As a bonding aid for repair mortars, non-shrink grouts to concrete substrates
- As a bonding aid between new and old concrete, e.g. construction joints
- As a polymer admixture for cementitious mixes for use in the repair of cracked or worn concrete and cement mixes
- Incorporated to produce modified floor screeds

Properties

- Ease of application
- Economical
- Water resistance
- Improves durability of mixes and can be used to produce weather-resistant systems for external use
- Excellent adhesion of mixes to concrete, plaster and masonry
- Gives high tensile and flexural properties of mixes, which enhances thin applications
- Improves resistance against mineral oil, dilute salts and many other chemicals due to reduction in permeability
- Reduce cracking through increased mortar flexibility

Technical Data

| Criteria | Standard / test specification | Value / Unit | Notes |
|---------------------------|-------------------------------|--------------------------|-------|
| Adhesion Strength | EN 1015-12 | ≥ 1.10 N/mm ² | |
| Slant Shear Bond Strength | ASTM C1042 :91 | ≥ 2.80 N/mm ² | |

The characteristic values stated are average values or approximate values. Due to the natural raw materials in our products, the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended use.

Substrate

Substrate Preparation

The substrate to be treated must be sound, cleaned and free from all contamination. Traces of oil, grease, curing compound etc., must be removed from concrete surfaces by using wire brush, scabble or any other approved means.

Smooth substrates must be mechanically roughened.

Before applying StoCrete SBR HD, pre-wet the substrate thoroughly to reduce moisture loss.

Free standing water should however be removed.

Application

Application temperature

Lowest application temperature: +8°C
 Highest application temperature: +45°C

Technical Data Sheet

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| Consumption | Type of application | Approx. consumption |
|-------------|------------------------|-----------------------------|
| | As a bonding agent | 6 – 9 m ² /litre |
| | As a bonding slurry | 2 – 3 m ² /litre |
| | As a polymer admixture | |

| | Typical Design Mix | | | |
|--|--------------------|---------|---------|---------------|
| | Repair Mortar | Topping | Render | Tiles Bedding |
| Cement (kg) | 50 | 50 | 50 | 50 |
| Sand (kg) | 150 | 75 | 150 | 125 |
| Aggregate (kg) | - | 75 | - | - |
| StoCrete SBR HD (litre) | 10 | 10 | 10 | 15 |
| Approx. water (litre) | 10 - 14 | 10 - 14 | 10 - 14 | - |
| Approx. coverage m ² /10 mm thick | 10 | 9.0 | 10 | 8.5 |

Material consumption/mix design depends on the application, substrate, and consistency, among other factors. The stated consumption values are only to be used as a guide. If required, determine precise consumption values on the basis of the specific project

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|---------------------------|--|
| Application method | Apply by brush or spray as bonding aid |
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|-----------------------------|--|
| Material Preparation | <p><u>Use as a Bonding Agent</u></p> <p>When use as a bonding agent, StoCrete SBR HD is applied directly from container without having to dilute with water. It is simply applied by brush or spray to ensure thorough wetting of the surface.</p> <p><u>Use as a Bonding Slurry (Priming)</u></p> <p>Apply on the still damp substrate a slurry coat consisting of 1 volume StoCrete SBR HD to 3 volume fresh cement.</p> <p>The cement should be blended slowly into the liquids and then stirred frequently to offset any settlement. Avoid "pudding" of the slurry coat.</p> <p>The topping must be applied wet-on-wet. If the slurry dries out, it must be removed and the cleaned substrate re-primed.</p> |
|-----------------------------|--|

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|--|--|
| Drying, curing, ready for next coat | Freshly placed screed, rendering, repair mortar, non-shrink grouts incorporated with StoCrete SBR HD should be kept damp and not exposed to sunlight, rain or rapid air. |
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|---------------------------|---|
| Cleaning the tools | Tools must be cleaned immediately after use with clean water. |
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| Notes, recommendations, special information, miscellaneous | Please consult the local sales office for further information and any site assistance required. |
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Delivery

| | |
|---------------|-------------|
| Colour | Milky White |
|---------------|-------------|

| Packaging | Name | Packing |
|-----------|-----------------|---------|
| | StoCrete SBR HD | 5 lit |
| | StoCrete SBR HD | 25 lit |
| | StoCrete SBR HD | 210 lit |

Technical Data Sheet

StoCrete SBR HD

| Storage | |
|---|---|
| Storage conditions | Store in cool dry conditions; avoid direct sunlight. |
| Storage life | This product has a shelf life of 12 months from the manufacturing date. |
| Identification | |
| Product group | Bonding Agent |
| Safety | Please refer to Safety Data Sheet. |
| Special Notes | |
| <p>The information in this Technical Data Sheet serves to ensure the product's intended use, or its suitability for use, and is based on our findings and experience. Users are nevertheless responsible for establishing the product's suitability and use.</p> <p>Applications not specifically mentioned in this Technical Data Sheet are permissible only after prior consultation. Where no approval is given, such applications are at the user's own risk. This applies in particular when the product is used in combination with other products.</p> <p>When a new Technical Data Sheet is published, all previous Technical Data Sheets are no longer valid. The latest version is available on www.sto-sea.com.</p> | |

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*Product images may differ from the actual product.