

# Technical Data Sheet

## StoCrete 4222

Cementitious waterproofing slurry for concrete and masonry surfaces



### Characteristics

- Area of application**
- Bathrooms, toilets and kitchens
  - Water retaining structures
  - Fountains
  - Basements
  - Swimming pools
  - Retaining walls and tunnels
  - Impervious bedding beneath tiles

- Properties**
- Breathable; allows transmission of water vapour from interior of a building
  - Easy application with minimal surface preparation required
  - Excellent adhesion bonding to normal and also porous substrate (capillary effect)
  - Pre-batched components
  - Impermeable
  - A self-curing system
  - Covers honeycomb and pitted poured concrete
  - Excellent for pointing leaking bricks and masonry walls
  - Good flexibility, tough and durable

- Application method**
- Apply with brush

### Technical Data

Criteria	Standard / test specification	Value / Unit	Notes
Mixed Density		1.80 g/cm <sup>3</sup>	
Compressive Strength @ 3 days @ 28 days	ASTM C109	25 N/mm <sup>2</sup> 35 N/mm <sup>2</sup>	
Flexural Strength @ 7 days @ 28 days	ASTM C343	2.5 N/mm <sup>2</sup> 7.0 N/mm <sup>2</sup>	
Bond Strength to Concrete	ASTM D4541	1.5 N/mm <sup>2</sup>	
Shore D Hardness	DIN 53505	50	
Resistance to water penetration	DIN 1048:Pt 5	0 mm	
Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on quality of water	SS 375 : Part 1 BS 6920 : Part 1	suitable	

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.

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### Application

<b>Substrate Preparation</b>	<p>All surfaces to be coated with StoCrete 4222 must be sound, clean and free from any contaminants.</p> <p>Repair all large cracks and honeycombs with Sto REPAIR SYSTEM. Leaking areas must be sealed with StoCrete PLUG.</p> <p>All surfaces must be pre-wet, but ensure no puddling before application.</p>
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<b>Material Preparation</b>	<p>Add StoCrete 4222 powder gradually to the liquid polymer and mix thoroughly.</p> <p>Two coats of StoCrete 4222 are required for waterproofing.</p>
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### Application

<b>Coating Procedure</b>	<p>Using a short stiff bristle brush, evenly distribute the base coat of StoCrete 4222 at a minimum of 1.0 kg/m<sup>2</sup> and then apply the finish coat at a minimum of 0.5 kg/m<sup>2</sup>.</p> <p>Allow 8 hours between coats.</p> <p>On smooth, dense masonry where improved bonding is required primed the substrate with Sto bonding agent prior to application.</p>
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<b>Working Life</b>	Approx. 30 mins @ 30°C
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<b>Consumption</b>	1st coat	1.0 kg/m <sup>2</sup>
	2nd coat	0.5 - 1.0 kg/m <sup>2</sup>

<b>Application Temperature</b>	Minimum application temperature + 8 °C
	Maximum application temperature + 45 °C

<b>Cleaning Tools</b>	<p>Tools must be cleaned immediately after use with water.</p> <p>Hardened material can only be removed mechanically.</p>
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### Delivery

<b>Colour</b>	Grey and special colours on request
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<b>Packing</b>	StoCrete 4222 5 kg set	
	StoCrete 4222 Component A	4 kg
	StoCrete 4222 Component B	1 kg
	StoCrete 4222 25 kg set	
	StoCrete 4222 Component A	20 kg
	StoCrete 4222 Component B	5 kg

### Storage

<b>Storage life / conditions</b>	The shelf life of StoCrete 4222 is approximately 12 months if stored in cool dry conditions.
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### Special notes

**Health & Safety** Please refer to Safety Data Sheet

**Technical Support** Please consult the local sales office for further information and any site assistance required.

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.

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.

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](http://www.sto-sea.com).

**Sto SEA Pte Ltd**  
159 Sin Ming Road  
#06-02 Amtech Building  
Singapore 575625  
Phone : +65 6453 3080  
Fax : +65 6453 3543  
[info.sg@sto.com](mailto:info.sg@sto.com)  
[www.sto-sea.com](http://www.sto-sea.com)

**Sto SEA Sdn Bhd**  
No. 15 Jalan Teknologi PJU 3/3A  
Surian Industrial Park Kota Damansara,  
47810 Petaling Jaya, Selangor Malaysia  
Phone : +60 03 6156 6133  
Fax : +60 03 6156 7133  
[info.sg@sto.com](mailto:info.sg@sto.com)  
[www.sto-sea.com](http://www.sto-sea.com)

**StoCretec GmbH**  
Gutenbergstr. 6  
D-65830 Krieffel,  
Germany  
Phone : +49 6192 401 104  
Fax : +49 6192 401 105  
[info.sg@sto.com](mailto:info.sg@sto.com)  
[www.sto-sea.com](http://www.sto-sea.com)