

# StoRender Flex

## The System

StoRender Flex is a specialist anti-crack render system specifically designed for use on existing rendered surfaces or external wall boards, using the highest quality materials to provide outstanding levels of crack resistance and weather protection.

## The Benefits

- Sto Glass Fibre Mesh is embedded into a fibre reinforced, factory batched cement free reinforcing coat, providing up to 15 times more crack resistance than conventional modified renders.
- StoRender Flex can bridge existing cracks and board joints without the risk of cracking. Expansion joints through the wall must be mirrored.
- Maintenance free finish renders offer complete protection from driving rain, yet remain vapour permeable.
- Sto's through coloured decorative finish renders are available in white and a range of 800 colours.
- Unique QS (Quick Set) grade materials offer frost resistance and wash off protection from +1°C, helping projects complete on time.
- Sto's decorative finish renders offer proven performance with over 450 million m<sup>2</sup> applied since 1955 in all climatic zones worldwide.



**Sto now offer\*  
a unique insurance  
backed warranty covering:**

- 10 years against cracking
- 10 years against latent defects in the render including adhesion, weather-proofing and fade resistance.

**StoRender Flex:**  
*Complete peace of mind – guaranteed.*

*\*Additional charge.*

1: Sandwell Lyng Integer Housing, Wolverhampton  
Architect: Cole Thomson Architects

2: Royal Opera House, London  
Architect: BDP Dixon Jones

## System Description

### 1. Reinforcing Coat

**StoArmat Classic** cement free, water based, fibre reinforced, highly flexible render. Application thickness: Max. 3mm. Drying time: 24 – 48 hours\*

### 2. Reinforcing Mesh

**Sto Glass Fibre Mesh** a specially developed reinforcing mesh which is embedded in the StoArmat Classic whilst still wet to provide additional crack prevention.

*Performance: (StoArmat Classic / Sto Glass Fibre Mesh combined): Adhesion to concrete: 0.93N/mm<sup>2</sup>. Tensile strength: 2.2% expansion at 2200N/50mm*

### 3. Decorative Finish Renders

Sto through coloured, weatherproof, low maintenance decorative renders.

Use either:

**Stolit** acrylic resin render

*Performance: Water absorption; w24 0.04kg/m<sup>2</sup>.h0.5. Vapour permeability; sd0.24m.*

or **StoSilco** silicone resin render

*Performance: Water absorption; w24 0.116kg/m<sup>2</sup>.h0.5. Vapour permeability; sd0.18m.*

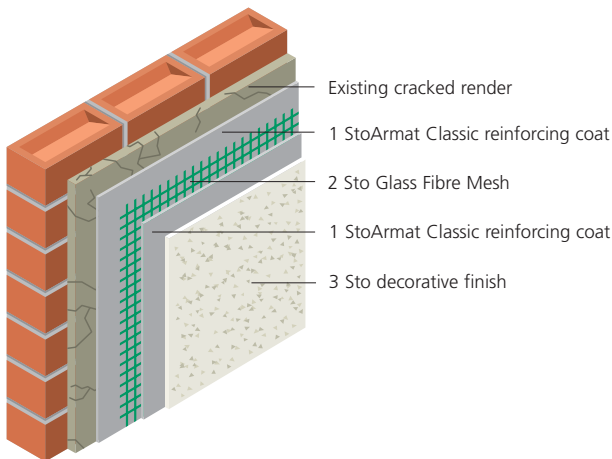
Drying time: May be over-coated after 24 – 72 hours\*

Thicknesses: As per Sto Render Guidelines.

Use QS grades below +5°C

**See box on Sto Decorative Renders for more details.**

**For a detailed specification, please contact Sto Ltd.**



## Surface Preparation

**StoRend Flex** is a thin coat render system. Ensure that surfaces are completely level before application. If surfaces need to be levelled use the **StoRend Flex Cote** System.

Correct preparation is of crucial importance to the functioning of the system. Existing substrates should be clean, dry and free of loose coatings or dirt etc. Make good as necessary.

**Existing Render Surfaces: Preparation Treatments** (if required)

**StoPrim Fungal** – fungicidal wash should be used where algae or fungus are present. Do not wash off after application.

**StoPrim Micro** – deeply penetrating, siloxane based primer, which forms a water repellent layer in the substrate. Reduces the absorbency of porous substrates and helps consolidate the surface.

**StoPrep Contact** – acrylic based adhesion intermediary for siliconised bricks, ceramic tiles or other low absorbency backgrounds.

**VeroTec F Wall Board Substrates:** No primer required

**Other wall board substrates:** Consult Sto for advice.

**If in doubt, please consult Sto for advice on the use of primers. Other primers are available for substrates requiring special treatment.**

## Technical Guidelines

### Application

Sto Render Systems use specialist materials applied by trained, registered applicators.

### Details

Detail drawings are available for most standard details. Please contact us for further information.

### Stop Beads / Corner Beads

Use Sto Proprietary Beads.

### Winter Working

Selected Sto finishes are available in QS (quick set) grades which are unique to Sto. These special materials can be used down to +1°C / 95% r.h. and are wash off and frost resistant after 9 hours. This performance is unequalled for water based materials. No solvents are used.

### \*Drying Times

Drying times are based on 20°C/65%r.h. Drying will be prolonged by cooler temperatures or higher humidity. Moisture content of the substrate will also be a factor.

**Sto Decorative Finishes:** Sto offers a wide variety of through coloured, low maintenance finishes including

#### Stolit K/R/MP

Excellent weather protection  
Vapour permeable  
800 colours  
4 aggregate sizes plus.  
**Stolit MP**, see right.

#### Stolit /StoSilco 'Stippled' finish



#### Stolit /StoSilco 'Rilled' finish



#### StoSilco K/R/MP

Visually similar as Stolit, but:  
Better vapour permeability  
Better dirt resistance  
Water repellent nature  
465 colours + 3 aggregate sizes  
plus **StoSilco MP** =>

#### Stolit MP/StoSilco MP finish



#### Head Office Sto Ltd.

Unit 3, Lyon Road  
Linwood Industrial Estate  
Paisley PA3 3BQ  
Tel: +44 (0)1505 324262  
Fax: +44 (0)1505 323618  
info.uk@sto.eu.com

#### Regional Offices Sto Ltd.

Tel: +44 (0)1256 332770  
Fax: +44 (0)1256 810887  
info.uk@sto.eu.com  
Tel: +353 (0) 1 460 2305  
Fax: +353 (0) 1 460 2455

[www.sto.co.uk](http://www.sto.co.uk)  
[www.sto.ie](http://www.sto.ie)