

StoRend Fibre Plus

The System

StoRend Fibre Plus is a high quality render system from Sto using a fibrous modified levelling render into which a tough reinforcing mesh is embedded to yield exceptional levels of crack resistance. Sto synthetic resin decorative finish renders then provide total weather protection and vibrant, long-lasting colour.

The Benefits

- Fibre reinforced, factory batched, modified levelling coat levels irregularities and offers excellent adhesion to all load-bearing substrates.
- Mesh coat using specially impregnated Sto Glass Fibre Mesh provides more than 5 times the crack resistance of conventional modified cementitious renders.
- Finish renders do not require over-painting and offer complete weather protection, yet remain vapour permeable.
- Unique QS 'quick set' materials offer frost resistance and wash-off protection from +1°C, helping projects complete on-schedule.
- Vast colour range of 800 colours to choose from.
- Sto's through coloured decorative finish renders offer proven performance with over 450 million m² applied since 1955 in all climatic zones worldwide.



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

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

StoRend Fibre Plus:
Complete peace of mind – guaranteed.

**Additional charge.*

1: Project: The Boardwalk, Limehouse, London.
Architect: Robert Macdonald Associates

2: Project: 2 Park Hill Road, Clapham, London.
Architect: Littman Goddard Hogarth

3: Project: Premiere Place, Docklands, London.
Architect: Chassay + Last.

System Description

1. Levelling / Reinforcing Coat

Sto-Fibrecoat cement based, polymer modified, fibre reinforced, levelling coat, of thickness 4 – 16mm. Above 12mm, apply in multiple coats to achieve a smooth, level surface. Application thickness for localised repairs: 2 – 20mm in one coat.

Performance (after 28 days): Tensile strength; 2.39 N/mm². Compressive strength; 5.63 N/mm². Adhesion to concrete; 0.36 N/mm².

Flexural strength: 944N/50mm when combined with Sto Glass Fibre Mesh

Drying time: ca. 1 day / mm thickness*

2. Reinforcing Mesh:

Sto Glass Fibre Mesh - *Performance: Mesh strength; 1750N/50mm. Expansion before failure 3.5%*

3. Intermediate Coat

Sto-Primer – acrylic based intermediate coat to consolidate the substrate, reduce absorption and create a hydrophobic zone.

Drying time: May be over-coated after 8 hrs*

4. Decorative Finish Renders

Sto through coloured, weather-proof, low maintenance decorative renders are available in white and a standard range of 800 colours.

Use either:

Stolit acrylic resin render

Performance: Water absorption; w24 0.04kg/m².h0.5. Vapour permeability; sd0.24m.

or **StoSilco** silicone resin render

Performance : Water absorption; w24 0.116kg/m².h0.5. Vapour permeability; sd0.18m.

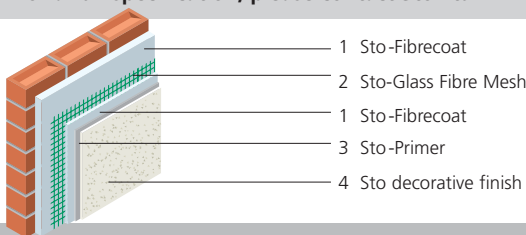
*Drying time: May be over-coated after ca. 24–72 hours

Thicknesses: As per Sto Render Guidelines.

Use QSE grades below +5°C

See box on Sto Decorative Renders for more details.

For a full specification, please contact Sto Ltd.



Surface Preparation

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.

Surface 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.

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

Technical Guidelines

Blockwork Tolerances

Levelling uneven blockwork adds cost to the system. The blockwork should therefore be constructed as true as possible – ideally to fair-face tolerances

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 reinforcing and finish renders 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, protecting the environment.

*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



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