



StoArmat Render System
for AAC Panel Construction

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Reinforced with a Sto Render System for maximum system longevity, reliability and weather resistance, the Sto solution for AAC Panel construction delivers quality and high-performance value for all architectural and construction demands, residentially and commercially.

Developed in Europe, lightweight, steel-reinforced autoclaved aerated concrete (AAC), approximately 20% the weight of traditional concrete, became commercially available in the 1930s. This innovative building material has gained popularity as a solid, durable, energy-efficient product providing insulation, fire and sound resistant properties.



Sto, an international brand

Selected with confidence worldwide

Growth from a solid foundation

Establishment in 1835, Sto has undergone an astonishing course of development, from a simple German lime and cement works into one of the leading suppliers of facade insulated systems; a manufacturer of high-quality exterior and interior render systems and coatings worldwide.

Sto encompasses subsidiaries and distribution partners in over 50 countries across the globe. This focused presence provides Sto with a precise understanding of local climatic conditions, architectural styles, building practices, standards and tastes.

As the authorised partner of Sto for Australia, Sto Australia Pty Ltd is committed to the Sto philosophy, "Building with conscience". Today, having developed a full range of Sto Render Systems that have been tested and certified for the market, Sto is recognised as a leader in the rendered facade and cladding market.



**Sto Head Office,
Research &
Development,
Production Centre
Wiezen, Germany**



We always respect nature and look after your interests

In order to define and implement its ecological targets, Sto has developed a system of environmental management which conforms to international standards. This relates to the entire process chain - from the procurement of raw products, to production, packaging and logistics. Sto makes a clear contribution towards improving and preserving the quality of the environment.

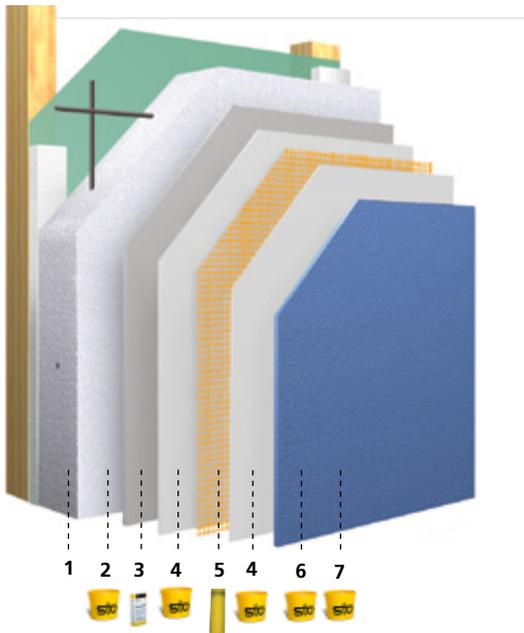


People and architecture; Sto provides the link

Architecture plays an important role in our lives; lending urban and rural landscapes character, whilst ideally preserving an intact environment. For Sto, "Building with conscience", means enhancing functionality and aesthetics on a sustainable basis and creating an environment in which people feel at one with their surroundings.

StoArmat Render System

Solutions for AAC Panel construction



A cost-effective approach, providing the latest technology with an innovative edge, creating systems that promise longevity and investment value from a recognised leader - Sto.

StoArmat Render System on AAC Panel

Before the system can be applied, the AAC panel surfaces are sealed for weather and rain resistance. Stolevell Novo is used as a basecoat to straighten out any irregularities.

This is followed by StoArmat Render and glass fibre mesh, providing engineered reinforcement to reliably dissipate tensile, seismic and shear stress.

Finished with perfectly interlocking components: Stolit fibre-reinforced coloured finishing render plus StoColor; creating a weather tight reinforcement system for reliability and protection that surpasses the facade durability requirements.

Perfect interaction

1. Substrate: AAC Panel

A solid, reinforced lightweight 50mm or 75mm concrete panel (AAC)

2. Sealer: StoPrim Plex

Sealer for AAC materials

3. Basecoat: StoLevell Novo

Lightweight, EPS bead mineral plaster with good build properties, water retention agents and machine application properties.

4. Reinforcement Render: StoArmat Render

An organic, weather resistant, cement-free and breathable, high-impact render, with a crack resistance six times higher than that of standard cement-based plasters.

5. Plus: Sto Glass Fibre Mesh 4/7mm

Easy to install, meets the highest requirements for crack, stress and alkalinity resistance

6. Finishing Render: Stolit Renders

Organically bound, highly weather resistant, strong, hard-wearing, impact-resistant, pre-coloured finishing renders. (No cement)

7. Coating:

StoColor coating based on IQ Net Technology for functional facades



The Sto solution for AAC Panel construction utilises StoArmat reinforcement render and Stolit finishing renders which are manufactured in Germany for guaranteed quality and application consistency. Sto organic, cement-free renders have evolved over 50 years with a successful global history covering over 100 million square metres.

Crack resistance

The impact of climate conditions and seismic activity can seriously threaten your property's facade.

StoArmat reinforcement promises a crack resistance six times higher than that of standard cement-based plaster, durability against mechanical and seismic stresses, plus impact resistance; ensuring maximum system reliability and longevity for your building facade.

Weather resistant

StoArmat and Stolit finishing renders guard against the weather and changing climate conditions to prevent and protect buildings from water damage. All Sto cement-free renders are polymeric, allowing them to repel water far better than traditional thick-coat plasters.

Vapour permeable

StoArmat and Stolit finishing renders promote breathability and water vapour permeability, preventing moisture from being trapped between the render and substrate. Water retention behind the cladding is thus avoided, whereas with elastomeric plaster or paint, water can build up behind the coating, eventually leading to blistering.

The StoWarranty

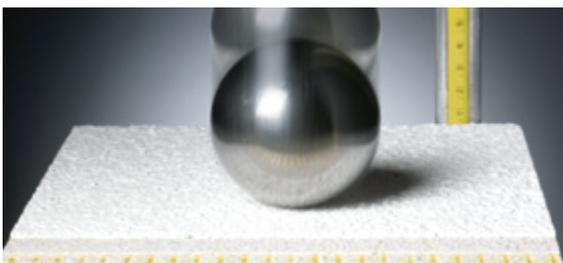
Installations are carried out by a Sto Registered contractor with the added protection of a StoArmat 15 or 20 Year Warranty and StoService Assurance, guaranteeing building code compliant materials are used and application meets building code standards, including a service plan for long-term security.



StoArmat bend test



Sto Render System



StoArmat impact test

A bend test demonstrating extraordinary flexibility and an impact test proving the high-fracture resistance of StoArmat renders.



Blistered coating

Water vapour molecules pass through Sto renders and coatings while still promoting maximum weather-tight properties. Elastomeric plasters and paints can result in facade blistering and distortion as water vapour molecules become trapped.

Stolit: Coloured finishing renders

Providing your facade with optimum protection

Stolit organic finishing renders are certified globally and successfully applied to rendered substrates in every climatic zone for over 50 years.

Stolit finishing renders provide the perfect combination of properties: weather resistant, durable, hard-wearing, impact-resistant, malleable, colour-stable, highly resistant to microorganisms and vapour permeable allowing your building to breathe while still repelling water.

Furthermore, opposition mineral renders rely on paint to achieve stability and colour, but even minor wear and tear exposes the unpainted render underneath. Stolit finishing renders are through-coloured, so the intensity of colour and everyday wear will not affect the appearance or stability of the rendered exterior facade.

Whichever finishing render is chosen, each one is part of a tested and approved system, providing optimum protection and durability.

Benefits at a glance

- Available in the full spectrum of colours.
- Extremely low water absorption.
- Optimum surface adhesion.
- Shock-proof and highly resistant to cracks.
- Exceptional resistance to mechanical stress.
- Outstanding colour stability and product stability process – does not require an equalisation coat.
- Excellent application properties.



Stolit MP

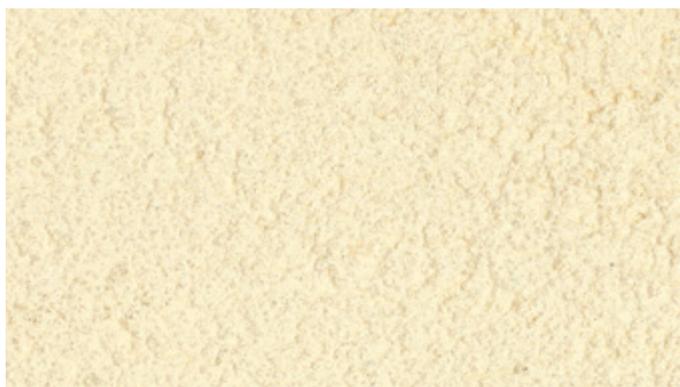


Stolit MP Natural





All Stolit renders are easy to apply and can be tinted using the StoColor System or matched to the colour of your choice using the Sto Spectrometer.



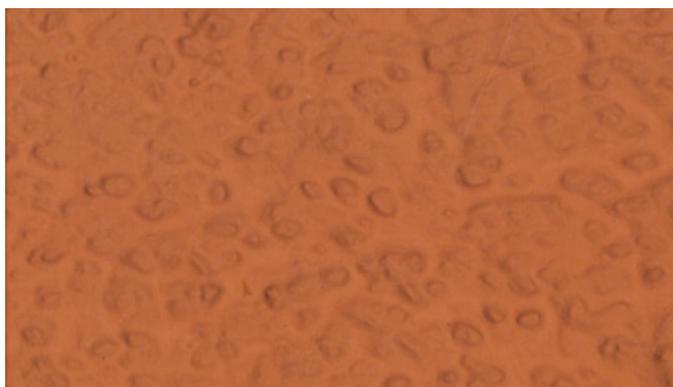
Stolit K 1.0mm



Stolit K 1.5mm



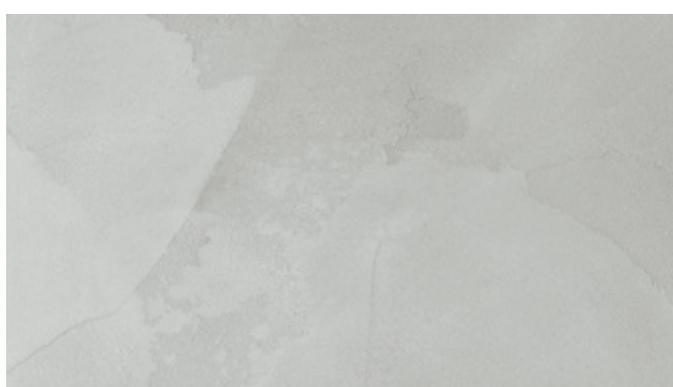
Stolit K 2.0mm



Stolit K 3.0mm



Stolit renders are polymeric, allowing them to repel water and breathe, providing extra long-term protection superior to traditional, painted plaster systems.



Stolit Milano

The perfect finish

Facades as individual as you and your project

The StoColor finish, a serviceable coating embodying intelligent technology for a range of surface functions to compliment the architectural structure and design. The StoColor System, with 800 shades or matched to any colour using the Sto Spectrometer, provides a clear framework and systematic approach to colour based on integrated layers, combining texture and colour for aesthetic appeal.

Tested protection and quality

Sto paints establish easy-to-maintain surfaces and an outer layer of the Sto protection system, fulfilling all-important physical building requirements in terms of serviceability and functionality. StoColor facade paint is based on Sto intelligent technology, inspiring an innovative range of surface functions.



The StoColor System comprises of 800 colours for use in architecture - or can be matched to any colour using the Sto Spectrometer to meet any colour design preference.



Sto has been conducting intensive research in the field of bionics for many years. The result: facade paint with iQ – Intelligent Technology where innovative surface functions provide clear added value.

StoColor X-black	StoColor Lotusan®	StoColor Maxicryl	StoColor Lastic Satin
Strong colours for cool facades. A facade paint with X-black technology for dark-coloured facades.	Dirt runs off with the rain. A tried-and-tested facade paint with patented Lotus-Effect® technology for facades that stay cleaner for longer.	A natural looking, matte acrylate facade dispersion paint with high covering power and colour fastness. Suitable for masonry, brick, precast and all Sto rendered substrates.	Durable elastomeric facade paint that bridges cracks in the underlying substrate, for a waterproof solution.
<p>At a glance:</p> <ul style="list-style-type: none"> • Reflects the near-infrared spectral region of solar energy. • Wide variety of colours and shades, a high level of colour stability. • Especially suited to dark colour shades. • Natural matte finish. 	<p>At a glance:</p> <ul style="list-style-type: none"> • Maximum resistance to atmospheric soiling. • Natural protection against algae and fungal attack. • Full colour selection. • Lotusan® is available with additional film protection. • Natural matte finish. 	<p>At a glance:</p> <ul style="list-style-type: none"> • Excellent hiding power. • Full colour selection. • Easy, simple application. • Natural matte finish. 	<p>At a glance:</p> <ul style="list-style-type: none"> • Elastomeric dispersion paint. • Water-vapour permeable. • Excellent hiding power. • Ideal refurbishment coating. • Good colour selection. • Low-sheen satin finish.
			

Well advised

Let yourself be inspired

Individual customer consultation and project support is the basis of a successful business relationship at Sto. Whether on the telephone, in the sales centre or on the construction site – the Sto team will be pleased to provide you with advice, assistance and creative ideas.

Sto customer service

Service at Sto goes far beyond the development and sale of high-quality products. Ultimately, any product is only as good as its application. This is why Sto places great emphasis on service and consultation. The Sto team are here for their customers, providing comprehensive information and tips on the practical use of new products and relaying detailed knowledge from the Sto technical department.

Smart and sustainable

Sto's impact on performance is big, but the footprint on the environment is small. All Sto products are vapour permeable, easy to apply, safe and non-toxic with low VOCs. Sto incorporates sustainable practices throughout its operations, earning ISO 9001 for quality assurance and 14001 certification for their environmental management system. Many Sto products help reduce the environmental impact of construction by providing insulation, reducing maintenance requirements and extending the life cycle of building facades.

For contact details of your nearest Consultant, please see the reverse side of this brochure.



BRANZ Appraised



QUALITY ASSURED



EN ISO 14001

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