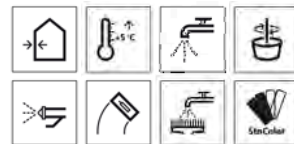


# Technical Data Sheet

## StoArmat Classic

Organic, cement-free reinforcing compound/base coat, ready-to-use



### Characteristics

#### Application

- Exterior and interior
- On to organic and mineral substrates
- As a reinforcing compound for StoTherm Classic and StoVentec Facades, as well as a levelling and renovation filler
- Not suitable for horizontal or sloping surfaces subject to weathering

#### Properties

- Cement-free
- Highly flexible
- Crack-proof
- Maximum resistance against mechanical stress
- Highly weather-resistant
- High stability
- No priming coat necessary
- High application security
- Very good application properties

#### Information/notes

- As reinforcing coat:
- Crack extension > 2%
- impact resistance > 10 joule with appropriate system structure possible (Sto-Glass Fibre Mesh and organic finishing render with a grain size of at least 2 mm)

### Technical data

Criterion	Standard / test regulation	Value/ Unit	Notes
Density	EN ISO 2811	1.5 - 1.7 g/cm <sup>3</sup>	
Diffusion-equivalent air layer thickness	EN ISO 7783-2	0.4 - 0.6 m	V2 medium
Water permeability rate w	EN 1062 -3	0.03 kg/(m <sup>2</sup> *h <sup>0.5</sup> )	W3 low
Water vapour diffusion resistance factor μ	EN ISO 7783-2	160 - 240	V2 medium
Reaction to fire (class)	EN 13501-1	A2-s1, d0	Non-combustible

The characteristic values stated are average values or approx. values. We use natural raw materials in our products, which means that the stated values can vary slightly in the same delivery batch; this does not affect the suitability of the product for its intended purpose.

### Substrate

#### Requirements

The substrate must be firm, level, dry, load-bearing and free from grease and dust. The suitability of the fixing method with the substrate must be assessed individually on site where necessary. Damp or not fully cured substrates can lead to defects in subsequent coats, such

# Technical Data Sheet

## StoArmat Classic

as blistering or cracks.

**Preparations** Check existing coatings for their suitability and load-bearing capacity. Remove any non load-bearing or structurally weak coatings. The substrate must be cleaned where necessary.

### Application

**Application temperature** Lowest temperature of substrate/air: +5°C  
Highest temperature of substrate/air: +30°C

**Material preparation** The material is ready-to-use after being stirred. If necessary, the material consistency can be adjusted by adding water.

Consumption	Type of application	Approx. consumption	
	Reinforcement on EPS boards	3.00 - 3.50	kg/m <sup>2</sup>
Levelling (smoothing filler)	1.00	kg/m <sup>2</sup>	
Per mm of layer thickness	1.50 - 2.00	kg/m <sup>2</sup>	

The consumption of the material depends on the application method, substrate and consistency, amongst other factors. The stated consumption rate is only to be used as a guide. Where required, precise consumption values should be established on the respective project.

**Application** Manually, By machine

#### Reinforcing:

Apply the product manually with a rust-free steel trowel, or by machine. Fully embed the mesh in the upper half of the reinforcement, into the reinforcing compound while it is still damp. The mesh joints must overlap by 10 cm.

Recommendation: Diagonal reinforcement must be used in the corner area of building openings (such as windows, door reveals, etc.). Due to the extraordinary elasticity of the product, additional diagonal reinforcement is not absolutely necessary if the lightness value is > 20%.

Machine application (mixing and/or pumping) must be aimed for. The paste-form components are supplied ready-to-use in the StoSilo Comb. Daily cleaning of hoses and machines is not required. StoSilo can be topped up with StoSilo Vario.

**Drying, curing, reworking time** The drying time depends on the temperature, wind and relative humidity. During unfavourable weather conditions it is imperative that suitable protective measures (e.g. protection against rain) be applied to the work in progress and freshly completed facades.

Successive coats may be applied after 24 hours when the air and foundation/base temperature is of about +20°C and the relative humidity is of 65%.

**Cleaning the tools** Clean tools with water immediately after use.

# Technical Data Sheet

## StoArmat Classic

### Indications, recommendations, special information, miscellaneous

Further details for application can be found in the system-related application guidelines.

The use of QA products is recommended for reinforcing work during the cold and damp time of year.

### Delivery

**Colour shade** White, Limited tintability in accordance with the StoColor System

**Packaging** Pail

### Storage

**Storage conditions** Store tightly sealed in frost-free conditions. Protect against heat and direct sunlight.

**Storage life** The quality of the original package is guaranteed until stock by date. The stock by date can be deduced from the batch number of the package.  
Batch number explanation:  
Number 1 = the last number of year, numbers 2 + 3 = a week  
I.e.: 1450013223 – stock date until the 45th week of the year 2011

### Certificates / approvals

ETA-03/0027	StoTherm Classic 1 (EPS and StoArmat Classic) European technical approval
ETA-07/0156	StoTherm Classic 1 (MW/MW-L and StoArmat Classic) European technical approval
Z-33.2-394	StoVentec systems for external facade render National technical approval

### Identification

**Product group** Filler and reinforcing compound

**Composition** In accordance with VdL (German Paint and Printing Ink Association) guideline: Construction coating materials for buildings, Polymer dispersion, Titanium dioxide, Quartz, Aluminium hydroxide, Mineral filler material, Water, Alcohols, Glycol ether, Additive, Preservative

**Security** Please observe safety data sheet

### Special information

The information or data serves to ensure the product's intended purpose or its suitability for use and is based on our findings and experience. Nevertheless, users are responsible for establishing the suitability of the product for its intended use. Applications other than those explicitly mentioned in this technical data sheet are only permissible after prior consultation with Sto AG. Where no approval is given, such applications are at the risk of the user. 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 the Internet at [www.sto.com](http://www.sto.com).

# Technical Data Sheet

## StoArmat Classic

<b>CE</b>		
<b>Sto AG, Ehrenbachstr. 1, D-79780 Stühlingen 10</b>		
<b>EN 15824</b>		
<b>StoArmat Classic</b> <b>reinforcing compound/base coat</b>		
<b>Reaction to fire</b>	A2-s1, d0	Non-combustible
<b>Water absorption</b>		W3 low
<b>Thermal conductivity</b>		NPD
<b>Tensile strength on concrete</b>	≥ 0,3 N/mm <sup>2</sup>	
<b>Durability</b>		NPD
<b>Water vapour permeability</b>		V2 medium

Rev. no.1

### CE StoArmat Classic

Sto AG  
 Ehrenbachstr. 1  
 D - 79780 Stühlingen  
 Phone: +49 7744 57-0  
 Fax: +49 7744 57-2178  
 Infoservice.export@sto.eu.com  
 www.sto.com