



StoTherm Vario

The alternative with polystyrene insulation and a mineral base coat

The StoTherm Vario combination system is the ideal choice for those seeking to combine the advantages of a light, organic insulant with a mineral finishing render. The system also impresses with silicate finishing renders. Alongside the facade renders and paints, design possibilities know almost no boundaries thanks to further combination options, e.g. using ceramic tiles, glazed brick slips, natural stones or architectural elements.

StoTherm Vario

The flexible combination system



Maria-Montessori school centre, Leipzig, Germany
llg. Friebe. Nauber architectural office, Leipzig, Germany
Photographer: Günther Fotodesign, Leipzig, Germany

System advantages

- Free choice of finishing renders
- Decorative facade finishes with ceramic and natural stone tiles possible
- High resistance to microorganisms (algae and fungi), especially with an additional paint build-up (incl. prime coating)
- Clean building site through the use of Sto-Turbofix – the adhesive based on PU foam
- Highly weather-resistant
- Highly weather-resistant
- Permeable to water vapour and CO₂



- 1 Bonding**
StoLevell Uni or Sto-ADH-B
- 2 Insulation**
Sto-Polystyrene Rigid Foam Board
- 3 Fixing *not shown**
- 4 Base coat**
StoLevell Uni or StoLevell Duo plus
- 5 Reinforcing coat**
Sto-Glass Fibre Mesh
- 6 Intermediate paint coat**
Sto-Primer
- 7 Top coat**
StoLotusan® K/M

Overview of StoTherm Vario

Area of application	<ul style="list-style-type: none"> • Suitable for passive house standard
Substrate	<ul style="list-style-type: none"> • Masonry, e.g. brick, calcium silicate masonry units, porous concrete, fair-faced masonry and facing masonry • Concrete and concrete slab construction (three-layer concrete slabs) • Timber construction (solid, frame and panel construction) • Steel construction (post and beam and frame construction) • Existing external wall insulation systems (doubling-up of insulation)
Fixing	<ul style="list-style-type: none"> • Bonding • Bonding and dowelling • Purely mechanical fixing
Thermal protection	<ul style="list-style-type: none"> • Insulation board made of EPS, up to 400 mm thick • For natural stone and ceramic cladding up to 200 mm
Reaction to fire	<ul style="list-style-type: none"> • Limited combustibility • Class B, C in accordance with EN 13501-1, depending on system build-up • Additional fire protection measures may be required
Impact resistance	<ul style="list-style-type: none"> • Resistant to mechanical stress • Hail impact resistance class 3 in the appropriate system build-up
Design options	<ul style="list-style-type: none"> • Organic and silicone resin renders, render with Lotus-Effect® Technology, as well as mineral and silicate renders in stippled, rilled and free-style textures • Resin brick slips and 3D facade elements made of Verolith granulate • Natural stone tiles, brick slips, and ceramic tiles
Colour spectrum	<ul style="list-style-type: none"> • Limited tintability in accordance with the StoColor System • Light reflectance value $\geq 20\%$
Application	<ul style="list-style-type: none"> • Suitable for application by machine • QuickSet and FastTrack Technology makes it possible to carry out projects during the colder seasons • No paint coat necessary if using organic finishing renders • Special protection against algae and fungi with a double coat of paint
Approvals	<ul style="list-style-type: none"> • The relevant national approvals apply

Head office

Sto SE & Co. KGaA

Market Development

Ehrenbachstrasse 1
 79780 Stuehlingen
 Germany

Phone +49 7744 57-1131

Fax +49 7744 57-2428

infoservice@sto.com

www.sto.com



The detailed technical specifications and information on the products contained in the Technical Data Sheets and approvals must be observed.