

TECHNICAL DATA SHEET

KEMATERM PL-S

Ready-to-use pasty silicate-resin top coat



PRODUCT DESCRIPTION

Ready-to-use pasty silicate-bound final coat (thin-layer cover coat) as floating and set with scratched or corrugated structure, for outside and inside applications. Can be processed manually and by machine. System component for KEMA thermo façade systems. Tested according to ETAG 004.

Available in scratch (K) and groove (R) structures and next grain sizes:

- 1,5 K
- 2 K
- 3 K
- 2 R
- 3 R

Field of use

Protection and decoration of facades and internal wall surfaces on old and new mineral plasters and stoppers, on concrete, for listed buildings, for refurbishing, as final coat of the KEMA thermo façade systems, and on remediation plasters.

Product properties

KEMATERM PL-S is suitable on nexts surfaces:
- Mineral backing plaster on thermal insulating composite systems
- Lime/cement plasters, concrete
- Silicate paint and plasters with good adhesion properties
And conditional suitable on:
- Gypsum based plasters (test it on trial surface)

- Mineral
- Weather-resistant
- Hydrophobic
- Highly vapour permeable
- Non-flammable

PRODUCT DATA

Basic information

Appearance	Pasty resin compound in 200 colour tones
Packing	25 kg bucket / 600 kg (24x25 kg) on pallet
Storage and expiration date	12 months from date of production if stored properly in undamaged original sealed packaging in dry and cool conditions. Date of production is printed on packaging.

Technical data

Type of product	Mineral fillers and bonding agents, silicates, micro-fibres, pigments, additives, water
Largest grain	1.5/2.0/3.0 mm
Apparent density	approx. 1.8 kg/dm ³
Thermal conductivity λ	approx. 0.70 W/mK
Vapour diffusion resistance coefficient μ	approx. 30-50

Water absorption coefficient (w value)	< 0.20 kg/m ² t0,5
sd value	0.06 – 0.1 m (for layer thickness of 2 mm)
Colours	200 colours (special colours on request)
Adhesive strenght	< 0,3 MPa

Structure of coats

On generally base:

1 x KEMATERM GRUND 210
1 x KEMATERM PL-S

On repaired mineral base:

2 x KEMATERM GRUND 210
1 x KEMATERM PL-S

INSTRUCTIONS FOR USE

Consumption

Consumption depends of structure and grain size.

Description	1,5K	2K	3K	2R	3R
Consumption (kg/m ²)*	2,5	3,2	4,2	2,8	2,9

*-including with holes

Base

The base surface must satisfy the following requirements: clean, dry, free of frost, free of dust, not water-repellent, free of efflorescence, supporting and free of loose particles.

Base preparation

Pre-treatment of the base:

- Consolidate chalking or slightly sanding surfaces; resting period: at least 14 days
- Mechanically remove sinter skin
- Remove forming oil residues from concrete with hot steam or commercially available special forming oil removes
- Clean dirty surfaces
- Treat base surfaces infested with algae with special agent
- Remove weathered coats of paint with bad adhesion properties by mechanical means or with removal agent
- Coat damaged and cracked mineral surfaces with stopper; where required reinforce with Kematerm MTX 240

Mix ratio

Kematerm PL-S is ready-to-use compound, so nothing is allowed to add.

Mix time

Mix KEMATERM PL-S top coat thoroughly before application.

Mix tool

For mixing use a electric stirrer.

Installation

After a drying time of at least 24 hours for the Kematerm Grund 210, 1 x Kematerm PL-S may be applied. Apply the final coat to the entire surface with trowel or spray it on with a suitable fining plaster machine, then screed to grain thickness and spread thin with float immediately after application. Work evenly and without interruption.

Tool

For application we choose stainless steel trowel and for spreading a plastic plasterers float.

Cleaning of tool

Clean tools immediately after the use before adhesive hardens. Hardened material on tools can only be removed mechanically.

LIMITATIONS

Base temperature

+8°C min./ +30°C max.

Air temperature

+8°C min./ +30°C max.

Material temperature

+8°C min./ +30°C max.

Warnings

- Protect facade against direct solar irradiation, rain or strong wind (for instance with scaffold netting).
- High air humidity and low temperatures can extend the drying time considerably and may lead to an irregular colour change.
- A consistent colour appearance can only be guaranteed if the products are from the same production batch.
- Do not mix with other coating substances.
- The development of the colour tone can be influenced by the conditions of the base, the temperature and the air humidity.
- Kematerm PL-S can be adjusted on request to inhibit algae growth (this has a preventive and delaying effect, however, the non-appearance of algae cannot be guaranteed). If several batches are used, always ensure that they are mixed together before starting work.
- If used on thermal insulating composite systems, the brightness reference value must not be lower than 30.
- Can be painted over with KEMACOLOR S silicate paint and KEMACOLOR X silicone paint.
- All base surfaces must be pre-treated with KEMATERM GRUND 210 primer. (Resting period: at least 24 hours)
- KEMATERM PL-S is not suitable on nexts surfaces: plastics and resins, varnish and oil films, distemper, lime paint (whitewash).

Recommendation: Remains of the unhardened/unset material have to be removed in accordance with the legislation.

Data source: All technical data in this technical sheet was obtained by laboratory research. Actual data may differ due to different working



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conditions.

Local restrictions: Due to specific local regulations the installed product can differ from country to country. For exact instructions for use a country specific technical sheet should be obtained.

PROOFS

Norms/Standards

European Technical Approval, ETA-07/0167

SAFETY DATA

Protect your eyes and skin as well as the surroundings of the surfaces to be coated in particular glass, ceramic, clinker, natural stone, paint and metal surfaces. If applicable, remove silicat plaster splashes by rising the affected areas with a lot of water, do not wait until the plaster dries out and gets hard.

S phrases: S 2 Keep away from children. S 24 Avoid contact with the skin. S 25 Avoid contact with eyes. S 37 Wear suitable gloves

OTHER INFORMATION

Quality assurance:

Internal quality assurance is provided by our factory laboratories. Our system of regular production checks is externally controlled by an approved institute.

LEGAL BASE

Information and recommendations related to use of KEMA products are presented in good faith and believed to be correct. The later is based on our knowledge and experience with the products. Information is supplied upon the condition that products are stored and used according to the recommendations and the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to Information or the product to which information refers. In no event will KEMA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained herein is to be construed as a recommendation to the use any product, process, equipment or formulation in conflict with any patent, and KEMA makes no representation or warranty, expressed or implied that the use thereof will not infringe any patent. All orders fall under current sales and supply conditions. The user should always check the latest technical sheet available upon demand.