



KEMA d.o.o.,
Puconci 393, 9201 Puconci, Slovenija
T: +386 (0)2 545 95 00, F: +386 (0)2 545 95 10
Technical consulting: +386 (0)2 545 95 28, +386 (0)2 545 95 73
I: www.kema-on.net | E: info@kema.si

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TECHNICAL DATA SHEET

KEMASAN 590 FF

Fine levelling compound based on Roman lime



PRODUCT DESCRIPTION

Roman lime-bound levelling compound.

Field of use

For final levelling of facades and reparation of historical buildings. 2 to 6-mm thick one-time coating.

Product properties

- Excellent adherence to substrate
- Does not shrink, swell and crack
- Easy to work with
- Used for indoor and outdoor applications
- Resistant to moisture and salts

PRODUCT DATA

Basic information

Appearance	Grey powder
Packing	15 kg in plastic bucket (3x5 kg)
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	Roman lime-bonded mortar	
Bulk density of powder	1,14 kg/l	EN 1015-1:1999
Weight of fresh mortar	1,66 kg/l	EN 1015-7:2001
Weight of hardened mortar	1,48 kg/l	EN 1015-11:2001
Grain size	D _{max} : 0,315 mm	EN 1015-1:1999
Layer thickness	2-6 mm	
Water vapour permeability coefficient (μ)	8,4	EN 1015-19:2001
Value Sd (m)	0,03 (minimum layer thickness d=3 mm)	EN 1015-19:2001
Flexural strength after 28 days	2,19 MPa	EN 1015-11:2001
Compressive strength after 28 days	4,7 MPa (CS II)	EN 1015-11:2001

INSTRUCTIONS FOR USE

Consumption

1,5 kg/m² for each mm of thickness

Base

The surface must be solid, without dirt, oily stains, residue of old coatings, unbound particles and dust, and have a roughness structure of open pores. Highly porous surfaces and surfaces with uneven absorption we ground with KEMACRYL diluted with water 1:1. KEMASAN 590 FF is applied on the still wet impregnation.

Base preparation

Surface suppose to have rough structure with open pores, so, if surface is smooth, the mechanic grinding is recommended. Cracks and voids with deepness of 1 cm should be filled. As well active cracks should be improved.

Mix ratio

Approx.: 4,2 l of water per 15 kg of dry mixture

Mix time

Mix dry mixture with clean water into a homogenous mass of medium plastic consistency without clods. Leave it to rest for app. 5 minutes to intumesce and then stir it again thoroughly just before using it. Prepare so much mixture which can be used in 45 minutes.

Mix tool

Heavy-duty drill

Installation

KEMASAN 590 FF is applied manually in thickness of 2-6 mm in a uniform coat on prepared surface.

Tool

Trowel.

Cleaning of tool

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

Usage time

45-60 minutes

Coagulation

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LIMITATIONS

Base temperature

5°C min./ +25°C max.

Air temperature

5°C min./ +25°C max.

Material temperature

5°C min./ +25°C max.

Warnings

- Protect freshly installed material from freezing, rain and other weather conditions. The material should not be used at (surface, air, material) temperatures lower than +5°C.
- Times specified in the technical sheet were measured at the temperature of +23°C and relative air humidity of 50%. With higher temperatures prescribed time can be shortened while prolonged at lower temperatures.
- Use only recommended amount of water. Use only mixture from undamaged packaging. Do not overdo the layer thickness.
- The fresh coating must be protected from too fast drying, high temperatures, direct sun, wind, frost and rain at least 48 hours after installation.

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 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.

SAFETY DATA

Irritating. Contains cement. Irritating to eyes, skin and respiratory tract. Contact with skin may cause hypersensitivity. In case of eye contact wash thoroughly with water at once and consult a doctor. In case of skin contact flood with a lot of water. Keep away from the reach of children. More data on storage, handling and use of mixture can be found in the safety sheet which contains safety, toxicological and ecological data. Warnings on the original packaging should also be considered.

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.