

MAPETHERM FLEX RP

Cement-free, fibre-reinforced, lightweight elastic flexible skimming paste resistant to biological agents for internal and external use.

Available in the following granulometries: 0.5 mm and 1.5 mm.



BENEFITS AND FEATURES

- High elasticity and excellent bond strength
- High resistance to impact loads
- High protection against moulds and algae
- Tested and certified performance
- Quick application
- Colorable with ColorMap® tinting system

WHERE TO USE

Reinforced skim coats on insulating panels and thermal insulation systems. It can be used also for renovating damaged/deteriorated insulation systems.

Suitable also for restoring cracked walls of any type of building, including painted walls. It allows plasters to be properly repaired by equalizing any surface imperfections.

It is particularly suitable for protecting critical areas such as baseboards, common parts of apartment buildings, and publicly accessible areas exposed to impacts and stresses.

Mapetherm Flex RP, in the 0.5 mm version, is ideal for use on surfaces where a smooth even finish is required including on thermal insulation systems and can be used to level internal walls that require a smooth, elastic finish.

TECHNICAL CHARACTERISTICS

Mapetherm Flex RP is an organic skimming base coat characterised by high elasticity made of acrylic resins in water dispersion, selected fillers, glass micro-spheres and polypropylene fibres.

It contains additives that make it resistant to biological attack.

Unlike traditional cementitious smoothing and levelling compounds, **Mapetherm Flex RP** does not need to be fully cured and there is no need to use a primer before applying the final finish, thereby reducing the time to complete work considerably.

Mapetherm Flex RP adheres perfectly to all types of insulating panels, skimming mortars, traditional render and plaster, and old, well-bonded paintwork.

Thanks to its special composition, it also provides excellent resistance to impact loads: used in the main **Mapetherm** systems in combination with 1.2 mm thick layers of plaster; it passes 15 joule impact tests.

Mapetherm Flex RP can be tinted with the automatic **ColorMap®** automatic colouring system: applied in a colour similar to that of the finish, in addition to reducing the number of coats required, it hides imperfections in the substrate and helps form an even, uniform final finish.

Preparation of the product

Mapetherm Flex RP is ready to use; 1-2% water can be added if the product is too thick.

APPLICATION PROCEDURE

Mapetherm Flex RP 1.5 mm

It is applied with a stainless steel trowel, making sure it is applied in an even coat. Then go over the surface with a plastic float to obtain an even finish.

Skim coat on insulating panels

After complete drying of the adhesive, spread the first coat of **Mapetherm Flex RP** on the panels in uniform thickness and embed the alkali-resistant glass fibre mesh **Mapetherm Net**. Press **Mapetherm Net** down with a smooth trowel into the fresh product; overlap the edges of each piece of mesh by 5–10 cm. After 12–24 hours, apply a second coat of **Mapetherm Flex RP** skimming coat to form a compact and even surface suitable for the final coat, which must be applied after 24–48 hours, depending on the level of surrounding humidity and temperature, and in all cases only when the underlying coat is completely dry.

No primer is required.

Reinforced skim coats on façades

Remove all traces of oil and grease and parts, which are not well bonded to the surface. Areas patched up with repair mortar must be well-cured, perfectly clean and cohesive. The substrate must be dry. Prepare the substrate by the application of **Malech**. Wait 12–24 hours and then apply the first coat of **Mapetherm Flex RP** and embed the alkali-resistant glass fibre mesh **Mapetherm Net** by overlapping the adjacent sheets. After 12–24 hours, apply the second coat of skim coat. After 24–48 hours, depending on humidity and temperature conditions and, in any case, when the underlying layer is completely dry, apply the render or two coats of paint.

No primer is required.

Restoration of damaged thermal insulation systems

Verify that the old thermal insulation system is bonded to the substrate. Do not apply **Mapetherm Flex RP** on damp substrates. Remove all traces of oil and grease and parts, which are not well bonded to the surface. Prepare the substrate by the application of **Malech**. Wait 12–24 hours and then apply the first coat of **Mapetherm Flex RP** on the existing thermal insulation system in uniform thickness, and embed the alkali-resistant glass fibre mesh **Mapetherm Net**. Press **Mapetherm Net** down with a smooth trowel into the fresh product; overlap the edges of each piece of mesh by 5–10 cm. After 24 hours, apply a second coat of **Mapetherm Flex RP** skimming coat to form a compact and even surface suitable for the final coat, which must be applied after 24–48 hours, depending on the level of surrounding humidity and temperature, and in all cases only when the underlying coat is completely dry.

No primer is required.

Mapetherm Flex RP 0.5 mm

It is applied with a stainless steel trowel, making sure it is applied in an even coat. Then it can be spread with a damp sponge float when the product is drying to achieve a fine textured effect.

Skim coat for thermal insulation system with a natural finish

After proper preparation of the substrate with **Mapetherm Flex RP** 1.5 mm, reinforced with **Mapetherm Net**, apply one or more coats of **Mapetherm Flex RP** 0.5 mm to obtain a smoother effect compared to conventional thick renders. Wait for complete drying between coats (12–24 hours). **Mapetherm Flex RP** 0.5 mm is used in colours similar to that of the finish, which should be applied after 24–48 hours, depending on the surrounding temperature and level of humidity, and in any case when the underlying coat is completely dry.

Skim coats on internal walls

The substrate must be dry and not dusty, if necessary apply by brush, roller or spray one coat of **Malech**, suitably diluted according to the absorbency of the substrate.

After 12–24 hours, apply two coats of **Mapetherm Flex RP** and finish the surface with a sponge float. After 24–48 hours, depending on humidity and temperature conditions, and in any case when the underlying coat is completely dry, apply two coats of interior paint from the **Dursilite** range by Mapei. If necessary, the skim coat can be reinforced using **Elastocolor Net**.

No primer is required.

Product drying

Mapetherm Flex RP dries thanks to the physical process of water evaporation; in normal environmental conditions, the product reaches complete drying in about 10 days. In the event of rain or high humidity, normal drying times increase; it is recommended to provide adequate protective measures (e.g. scaffold sheeting) to avoid imperfections on the façade.



Old cracked thermal insulation system



Application of **Mapetherm Flex RP**



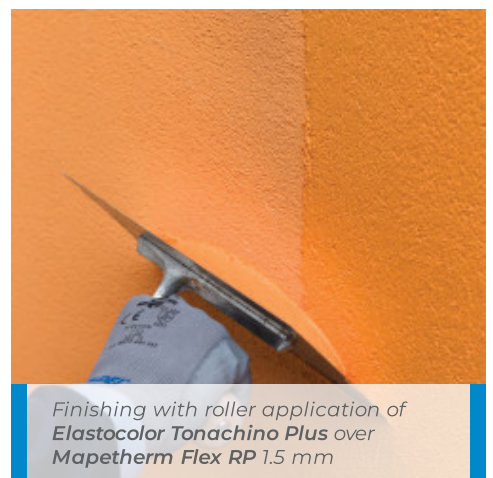
Application of **Mapetherm Net**



Embedding **Mapetherm Net** into the fresh coat of **Mapetherm Flex RP**



Finishing with roller application of **Silancolor Pittura Zero** over **Mapetherm Flex RP** 0.5 mm



Finishing with roller application of **Elastocolor Tonachino Plus** over **Mapetherm Flex RP** 1.5 mm

PRECAUTIONS TO BE TAKEN DURING PREPARATION AND APPLICATION

- Do not use **Mapetherm Flex RP** as a primer for silicate coatings.
- Do not apply **Mapetherm Flex RP** if it is about to rain or in windy weather. After application, it is necessary to protect the skim coat from rain for about 48–72 hours during the drying phase.
- **Mapetherm Flex RP** contains no solvents, therefore no special precautions are needed when handling the product. However, in case the application is carried out indoors, make sure the areas are well-ventilated.
- Do not apply the product at temperatures below +5°C or higher than +35°C.
- Do not apply the product when humidity is above 85%.
- Do not apply the product on damp masonries or on masonries subject to rising damp.

CLEANING

Clean trowels and other tools with water before the **Mapetherm Flex RP** dries.

CONSUMPTION

Mapetherm Flex RP 1.5 mm: 4.0 – 5.0 kg/m² per 3–4 mm of thickness.

Mapetherm Flex RP 0.5 mm: 1.9 – 2.1 kg/m² per 1 mm of thickness.

Consumption is strongly influenced by the roughness of the substrate.

PACKAGING

Mapetherm Flex RP is supplied in 20 kg plastic drums.

STORAGE

24 months in a dry place away from sources of heat at a temperature of between +5°C and +30°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the SDS available from our website www.mapei.com

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY		
Particle size:	0.5 mm	1.5 mm
Consistency:	paste	
Colour:	white or various colours using the ColorMap ® automatic colouring system	
Density (EN ISO 2811-1):	1.45 g/cm ³	1.5 g/cm ³
Dry solids content (EN ISO 3251):	80 %	80 %

APPLICATION DATA (at +23°C - 50% R.H.)

Dilution rate:	ready to use	
Waiting time between coats:	12–24 hours depending on humidity and temperature, and in all cases only when the previous coat is completely dry	
Waiting time before finishing operations:	24–48 hours depending on humidity and temperature, and in all cases only when the underlaying coat is completely dry	
Application temperature:	from +5°C to +35°C	
Consumption:	1.9 – 2.1 kg/m ² per 1 mm of thickness	4.0 – 5.0 kg/m ² per 4 mm of thickness

FINAL PERFORMANCE

VOC content of ready-to-use product (white) (European Directive 2004/42/EC):	≤ 13 g/l
VOC content of ready-mixed product (coloured) (European Directive 2004/42/EC):	≤ 24 g/l

RESISTANCE TO BIOLOGICAL ATTACK (P.R.A. test report)

Standard	Test	Results
EN 15457	resistance to mould and fungi	no growth
EN 15458	resistance to algae	no growth

RESISTANCE TO IMPACT (I.T.C. test report on main systems)

Standard	Test	Impact	Category of use
EN ISO 7892	Mapetherm EPS + Mapetherm Flex RP 1.5 mm + Mapetherm Net + Elastocolor Tonachino Plus 1.2 mm	15 J	I
	Mapetherm EPS + Mapetherm Flex RP 1.5 mm + Mapetherm Net + Quarzolite Tonachino Plus 1.5 mm	15 J	I
	Mapetherm EPS + Mapetherm Flex RP 1.5 mm + Mapetherm Net + Quarzolite HF Plus	3 and 10 J	I

OTHER PERFORMANCE CHARACTERISTICS

Standard	test	Results	0.5 mm	1.5 mm
EN ISO 7783	Permeability to water vapour	μ	256	250
		S _D (m)	0.26	0.38
		dry thickness according to S _D (m)	0.001	0.0015
EN 1542	Bond	bond strength (N/mm ²)	2.05	1.27

		Type of failure	B	B
EN 1745	Thermal conductivity	result/class	0.54 W/mK (chart value, P = 90%, for a dry density of 1500 kg/m ³)	0.54 W/mK (chart value, P = 90%, for a dry density of 1500 kg/m ³)
EN 13501-1	reaction to fire	Euroclass	A2 - s1,d0	

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application.

The values declared in the TECHNICAL DATA table (typical values) were obtained in compliance with test methods and curing cycles defined in the technical standards referenced therein. Therefore, please note that the use of test procedures or methods other than those indicated in the table could lead to different values and that, in such cases, any liability of our company is excluded.

Please refer to the current version of the technical data sheet, available from our website www.mapei.com

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The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.

The most up-to-date TDS can be downloaded from our website www.mapei.com. www.mapei.com.

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