



MapeSlope

**One-component
cementitious mortar,
applied in layers up to
5 cm thick for restoration
of slopes and filling
hollows on roofs**



WHERE TO USE

MapeSlope is a mortar used to level off substrates with hollows on roofs or substrates that are out of flat in order to re-establish slope enough for water to run off and to make them suitable for the application of a waterproofing product.

MapeSlope may be applied in a single layer up to 5 cm thick on various types of substrate such as:

- smooth or granulated bituminous membranes;
- concrete;
- cementitious screeds and screeds made from special binders (**Topcem** or **Topcem Pronto**);
- existing external ceramic, terrazzo and stone floors.

ADVANTAGES

- Eliminates premature aging of roofs caused by ponding water and hollows.
- May be used on both new substrates and old substrates thereby reducing removal and demolition costs.
- Easy to apply by trowel.
- Adheres well to substrates.
- Stable when exposed to UV rays.
- **MapeSlope** complies with CE EN 1504-2 marking.

- Extremely strong.

TECHNICAL CHARACTERISTICS

MapeSlope is a grey-coloured powder made up of special cementitious binders, selected aggregates, synthetic resin and special additives according to formula developed in the MAPEI R&D Laboratories. When mixed with water, it forms a blend with good workability that adheres perfectly to substrates and that may be applied by trowel to all types of substrates normally used in the building industry.

MapeSlope dries quickly so that the next waterproofing treatment may be applied within a short space of time.

MapeSlope meets the requirements of EN 1504-2 coating (C) according to principles MC and IR ("Concrete surface protection systems").

RECOMMENDATIONS

- When preparing and mixing **MapeSlope** do not add cement or any other products and never add more mixing water than indicated in the Technical Data Sheet.
- Before applying **MapeSlope** prepare the substrate with a suitable primer as described in the relative section in the Technical Data Sheet.
- After applying **MapeSlope** protect it from rain until it has hardened or until it has at least set to foot traffic.

- Apply the product at a temperature of +5°C to +35°C.
- In hot and/or windy weather protect **MapeSlope** with polyethylene sheets to prevent the mixing water evaporating off too quickly.
- Do not leave bags of **MapeSlope** exposed to the sun for long periods before use.
- Do not use this product on flexible or deformable substrates such as wood and wood conglomerates or the surface of metal.

APPLICATION PROCEDURE

Substrate preparation

All substrates, whether new or old, must be sound, clean, dry and free of rising damp and all traces of oil, grease, old paint, mould and any other material that could affect adhesion. When applying the product on bituminous membranes, clean them thoroughly, remove any blisters in the membrane and apply a coat of **Primer P3**.

Treat powdery cementitious substrates with a coat of **Primer 3296** as described in its Technical Data Sheet.

Smooth substrates with low absorbency and non-absorbent substrates, such as ceramic, terrazzo and stone floors, must be well bonded to the substrate. Remove any wax on the substrate and apply a coat of **Eco Prim Grip**.

Preparation of the mix

Pour a 25 kg bag of **MapeSlope** into a container with 4.5-5 litres of clean water while mixing and keep mixing (for at least 3 minutes) with an electric mixer at low-speed to form a smooth, lump-free mix, which remains workable for around 45 minutes.

Avoid mixing the product manually.

Application of the mix

Apply **MapeSlope** with a flat spreader in a single layer to form the thickness required and smooth and level off the surface to form the slope required on the substrate.

On hot and/or windy days protect the mortar to prevent the mixing water evaporating off too quickly and protect the mortar from coming into contact with rain until it has hardened or has at least set to foot traffic. The waterproofing treatment may then be applied once the mortar has completely cured.

Cleaning tools

Clean tools and containers with plenty of water while **MapeSlope** is still wet.

CONSUMPTION

Approx. 1.6 kg/m² per mm of thickness (1 cm of thickness: 16 kg/m²).

PACKAGING

25 kg polyethylene bags.

STORAGE

MapeSlope may be stored for 12 months in its original polyethylene packaging. This product conforms to the prescriptions of Reg. (EC) N. 1907/2006 (REACH) - Annex XVII, item 47.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

MapeSlope contains cement which, when in contact with sweat or other body fluids, may cause an irritant alkaline reaction and allergic reactions to those predisposed.

It may cause damage to the eyes.

During use, wear protective gloves and goggles and take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention.

For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

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. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

LEGAL NOTICE

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.

ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.

All relevant references for the product are available upon request and from www.mapei.com

**MapeSlope: one-component cementitious mortar for restoration of slopes and filling hollows on roofs up to 5 cm thick.
Complies with the requirements of EN 1504-2**

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:	powder
Colour:	grey
Maximum size of aggregate (mm):	1.8
Bulk density (kg/m³):	1,300
Dry solids content (%):	100

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

Colour of mix:	grey
Mixing ratio:	4.5-5.0 litres of water every 25 kg bag
Density of mix according to EN 1015-6 (kg/m³):	1,900
Maximum applicable thickness (mm):	50
Application temperature:	from +5° to +35°C

FINAL PERFORMANCE with 20% of mixing water (5 litres)

Performance characteristic	Test method	Requirements according to EN 1504-2 coating (C) principles MC and IR	Performance of product
Compressive strength (MPa):	EN 12190	not required	20 (after 28 days)
Adhesion to concrete (substrate in MC 0.40 type concrete - w/c ratio = 0,40) according to EN 1766 (MPa):	EN 1542	For rigid systems: with no traffic: ≥ 1.0	≥ 1.0 (after 28 days)
Impermeability expressed as coefficient of permeability to free water (kg/m²·h^{0.5}):	EN 1062-3	$W < 0,1$	$W < 0.1$ Class III (low permeability) according to EN 1062-1
Permeability to water vapour - equivalent air thickness S_D (m):	EN ISO 7783-1	Class I $S_D < 5$ m Class II $5 \text{ m} \leq S_D \leq 50$ m Class I $S_D > 50$ m a	Class I ($S_D < 5$ m)
Reaction to fire:	EN 13501-1	Euroclass	E



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