

Mapestop

**Agent for injection,
composed of a
concentrated silicone
micro emulsion for
creating a chemical
barrier against rising
damp in the masonry**



WHERE TO USE

To form a chemical barrier in old or new masonry that have problems with rising damp.

Some application examples

This system can be used to prevent rising damp through the capillary pores that are always present in building materials, especially to repair:

- old full brick and/or stone masonry built on damp sites or near water;
- mixed brick or stone masonry;
- cavity wall with an interspace between the two walls;
- masonry where the mechanical barrier, made up of bituminous felt or bituminous membranes is no longer useful;
- concrete masonry or light weight concrete blocks;
- tuff masonry.

TECHNICAL CHARACTERISTICS

Mapestop is a solvent-free concentrated micro-emulsion of silanes and siloxanes that must be diluted on site with water before using. Once prepared, **Mapestop** is stable for approximately 24 hours under normal temperature conditions.

After **Mapestop** has been diluted with water, it must be injected into the masonry in order to form a chemical barrier against damp.

Thanks to the reduced particles size, from 20 to 60 mm, **Mapestop** micro-emulsion can penetrate in depth into the damp masonry and, as a result of the reaction with water, it forms an efficient and durable waterproof barrier.

RECOMMENDATIONS

- After its dilution with water, **Mapestop** must be used within 24 hours.
- Do not use **Mapestop** to protect vertical surfaces from rain. Use **Antipluvial S**.

APPLICATION PROCEDURE

Preparing the masonry

To select the correct work procedure, before injecting the product, check the nature and type of masonry. If the masonry is compact (for example full bricks, tuff, standard concrete or light weight concrete blocks) drill the holes according to the method that is described further on.

However if the masonry is a cavity wall with an interspace between the two walls, it is absolutely necessary to fill the cavities by injecting **Mape-Antique I** (in cases of large voids) or **Mape-Antique F21** (if the stone masonry is not





Preparing the holes in the masonry off-set from the centre



Inserting the injectors in the holes



Detail of the injectors

cohesive or has little porosities) before using **Mapestop**.

Grout any cracks that are on the masonry face by using **Mape-Antique MC**, **Mape-Antique CC** or **Mape-Antique LC**.

Making the holes

Drill the holes downwards at an angle of 30°-45° on both sides of the masonry, approximately 20 cm above floor or ground level. The depth of the holes should be approximately 2/3 the thickness of the masonry and 10-15 cm from each other. If the wall can only be accessed from one side, the holes must be made in two rows offset from the centre, approximately 10 cm from each other and inclined 30°-45°.

The holes should have diameter of 20-24 mm and must be drilled not less than approximately 5 cm deep with respect to the width of the wall.

Preparing the product

Pour one part by weight of **Mapestop** into a clean container, and while mixing, add 15-19 parts of drinking water. Mix with a drill until the product is perfectly homogeneous.

The **Mapestop** micro-emulsion must be injected within 24 hours from dilution.

Applying the product

Inject in every single hole using gravity and suitable containers or using a low pressure

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Colour:	straw yellow - brown
Consistency:	liquid
Density (g/cm³):	0.98
Silane/siloxane content (%):	100
Viscosity at +23°C (mPa•s):	7
Storage:	12 months in unopened original packaging at a temperature between 0°C and +30°C
Hazard classification according to EC 1999/45:	harmful and inflammable. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packaging and Safety Data Sheet

APPLICATION DATA

Mix ratio:	1 part Mapestop with 15-19 parts clean water
Colour of mix:	straw yellow - brown
Consistency of mix:	liquid
Pot life of mix:	24 hrs
Application temperature range:	from 0°C to +30°C

pump (max 1 bar) until the injected zone is completely saturated. Usually injection by pressure is suitable when the masonry has high damp levels. After the injection of the product the holes must be sealed.

Cleaning

Tools used for preparing and applying **Mapestop** must be cleaned with water.

CONSUMPTION

Depending on the absorption of the masonry. Indicatively 8-9 kg of solution/m per 40 cm of masonry thickness, which is equal to 0.4-0.6 kg of **Mapestop** per linear meter.

PACKAGING

1 kg metal cans with screw type lid.
180 kg drums.

STORAGE

Mapestop can be stored for 12 months in the original packaging and in a dry sheltered place.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mapestop is inflammable and should be stored away from heat sources, flames and ignition. Take precautionary measures against static discharges.

Inhaling the vapours could cause damage to health.

In case of formation of vapour provide a suitable extraction system and protect respiratory system. Avoid contact with eyes and skin.

For further information refer to the safety data sheet of the product.

FOR PROFESSIONALS.

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 applications: 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.

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



Injecting Mapestop at low pressure

Mapestop



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