



Consolidante 8020

Reversible consolidating product in solvent for the conservative restoration of porous stone substrates, lime-based render and painted layers



WHERE TO USE

Consolidante 8020 consolidates and protects structures made from crumbly stone material, by improving the surface mechanical characteristics of weak substrates.

Consolidante 8020 is useful for both internal and external use, and is suitable for consolidating the surface of stone substrates, various types of render, porous stone and layers of lime-based paintwork.

Some application examples

- Deep consolidation of both internal and external porous stone substrates.
- Consolidation of open-pored antique renders.
- Consolidation of porous stone, such as sandstone, tuff, etc.
- Consolidation of cementitious renders.
- Consolidation of lime-based renders.
- Consolidation of layers of lime-based paintwork.

TECHNICAL CHARACTERISTICS

Consolidante 8020 is a liquid product based on dissolved polymers in a special blend of solvents,

characterised by its ability to penetrate deeply into porous substrates and by its excellent resistance to alkalis.

Because of the extremely small size of the polymer molecules, the product may also be used to consolidate substrates with very small pores.

By keeping the pores open **Consolidante 8020** does not modify substantially the support's permeability to vapour.

Even though the product does not alter the appearance of the substrate after being applied, we recommend carrying out preliminary tests to assess eventual changes in colour.

Traces of colour which are present on the substrate may be difficult to see with the naked eye, and after applying **Consolidante 8020**, they may be more easily visible.

Where required, surfaces consolidated with **Consolidante 8020** may be treated with **Antipluviol S**, a siloxane-based, water-repellent, impregnating product in solvent, or with **Antipluviol W**, siloxane-based water-repellent impregnator in watery emulsion or with coloured paint or mortar of the **Silancolor** range.

Consolidante 8020



Consolidating the substrate



Preparing the substrate



Applying Consolidante 8020

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Appearance:	extremely fluid, colourless liquid
Density (g/cm ³):	0.92
Dry solids content (%):	3
Viscosity (Ø 4 Ford cup):	10 seconds
Shelf life:	12 months
Hazard classification according to EC 1999/45:	irritant, highly flammable. Before using refer to the "Safety instructions for preparation and application" paragraph and the information on the packing and Safety Data Sheet
Customs class:	3905 29 00

APPLICATION DATA

Application temperature range:	from +5°C to +30°C
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RECOMMENDATIONS

- Do not dilute **Consolidante 8020** with standard thinners normally available on the market (contact MAPEI Technical Assistance department).
- Do not mix **Consolidante 8020** with water.
- Do not apply **Consolidante 8020** on damp surfaces or on surfaces subject to the counter-pressure of water.
- Do not apply **Consolidante 8020** on smoothing compounds containing polymers, as they may be soluble in contact with solvents.
- Do not apply **Consolidante 8020** on surfaces with a temperature of more than +30°C or which are exposed to direct sunlight, otherwise the solvent present in the product may evaporate off too quickly, thus impeding the product to penetrate into the substrate.

APPLICATION PROCEDURE

Preparation of the substrate

The substrate must be free of dust, oil and

loose parts. Traces of atmospheric pollutants or other greasy substances must be eliminated by applying swabs, by laser or by other non-destructive systems, in order to avoid inhibiting **Consolidante 8020** penetrating into the pores. Before applying the product, wait until the substrate is completely dry in order to ensure deep penetration of the consolidator.

Preparation of the product

Consolidante 8020 is ready to use. Mix the product briefly before application to make sure that it is homogenous.

Application of the product

Consolidante 8020 must be applied with a low-pressure, manual sprinkler at a distance of at least 10 cm from the substrate. The treatment is normally carried out by starting from the upper part of the surface to be treated, working downwards.

The product must be applied a number of times, depending on the type of substrate and the depth to which the product must penetrate. In order to find the correct

penetration depth of the product, carry out a series of preliminary tests beforehand on site.

When carrying out these tests, make sure that the pores are not completely obstructed due to an excessive quantity of the product being applied, otherwise stains may appear on the surface. If stains do appear, the excess product may be removed with one or two coats of special solvent applied using swabs.

Unlike other acrylic, epoxy or polyurethane-based polymers, it is relatively simple to make **Consolidante 8020** soluble using solvent, even a number of years after application.

However, when using the product for restoration work, we recommend contacting the company's Technical Assistance department and Research laboratory.

Cleaning

Consolidante 8020 may be removed from clothing and tools by using solvents.

CONSUMPTION

From 0.1 to 1.0 kg/m², according to the type of substrate and depth of consolidation required.

PACKAGING

10 kg drums.

STORAGE

Consolidante 8020 remains stable for 12 months if stored in a dry place at a temperature between +5°C and +30°C in its original, sealed packaging.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Consolidante 8020 is highly flammable: therefore, observe all necessary precautions to avoid the risk of fire, do not use naked flames, avoid sparks and do not smoke.

Consolidante 8020 irritates the eyes, while repeated exposure to the product may cause drowsiness and light-headedness. Use protective gloves and goggles, only apply the product in well-ventilated areas and, if necessary, use equipment to protect the respiratory system.

PRODUCT FOR PROFESSIONAL USE.

WARNING

While the indications and guidelines contained in this data sheet correspond to the company's knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical application. Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.

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

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