



Consolidante 8020

Polymer-based reversible consolidating product in solvent for the conservative restoration and the consolidation of porous stone substrates, lime render and paintwork



WHERE TO USE

Consolidante 8020 is used on internal and external surfaces to consolidate stone materials, brickwork, render, weak mortar with poor cohesion and lime-based paint to improve their mechanical properties.

Some application examples

- Deep consolidation of porous stone substrates.
- Consolidating porous stone such as sandstone, tuff, etc.
- Consolidating crumbling brickwork.
- Open-pore consolidation of antique and modern render.
- Consolidating various types of render.
- Consolidating lime-based paintwork.
- Consolidating stone substrates, brickwork and existing render, including the ones on listed buildings and buildings of historical or artistic interest.

TECHNICAL CHARACTERISTICS

Consolidante 8020 is a ready-to-use, reversible liquid product made from vinyl-versatate copolymers in a water-alcohol solution characterised by its high penetration capacity in porous substrates and

excellent resistance to alkalis and UV rays.

The molecules of the copolymers are extremely small which also makes the product suitable for consolidating substrates with very small pores.

Consolidante 8020 does not have a significant effect on the permeability of the substrates and keeps the pores in the substrate open.

Even though the product does not alter the overall appearance of the substrates, we recommend testing it on a small area to check if it has any affect on its colour.

Traces of coloured products on the substrate that are normally difficult to see with the naked eye may become slightly brighter after applying **Consolidante 8020** and make them more visible.

RECOMMENDATIONS

- Do not dilute **Consolidante 8020** with commercially available thinners (contact MAPEI Technical Services).
- Do not mix **Consolidante 8020** with water.
- Do not apply **Consolidante 8020** on damp surfaces or surfaces affected by water in counterthrust.

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Consolidating the substrate



Preparing the substrate



Applying Consolidante 8020

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Consistency:	liquid
Colour:	colourless
Active ingredient:	vinyl-versatate copolymers
Density (g/cm ³):	0.81
Ford viscosity (Ø 4 cup):	10"
Dry solids content (%):	3

APPLICATION DATA OF THE MIXTURE

Application temperature:	from +5°C to +30°C
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- Do not apply **Consolidante 8020** on polymer-based render and skim coats; they could become soluble on contact with the solvent contained in the product.
- Do not apply **Consolidante 8020** on surfaces with a temperature of more than +30°C or on surfaces exposed to direct sunlight; the solvent would evaporate too quickly and prevent the product from penetrating fully into the substrate.

APPLICATION PROCEDURE

Substrate preparation

The surfaces to be treated must have no traces of dust, solvent, detergent, oil or loose or detached areas. Pollution stains, mould, saline efflorescence and other substances must be removed with swabs, by laser cleaning or with other suitable non-destructive cleaning means to avoid affecting the capacity of **Consolidante 8020** to penetrate into the pores.

Before applying the product, wait until the substrate is completely dry to guarantee good penetration of the consolidating product.

Preparation of the product

Consolidante 8020 is supplied ready to use; mix briefly before use to make sure it is evenly blended.

Application of the product

Apply **Consolidante 8020** with a brush, roller or low pressure manual spray gun

held around 10 cm from the substrate. The surfaces to be treated must not be exposed to direct sunlight, freezing weather or wind. Apply the product starting from the upper part of the area to be consolidated and work downwards. Apply the product as many times as required using the wet on wet technique, depending on the type of substrate and the penetration depth required. To modulate and define the correct penetration depth, carry out preliminary tests on site.

When testing the product, check carefully to make sure the pores in the substrate are not clogged by too much active ingredient; stains could form on the surface. If the pores become clogged, remove the excess product with swabs and apply one or two coats of solvent to solubilise the active ingredient (contact MAPEI Technical Services).

Unlike other acrylic, epoxy or polyurethane-based polymers, it is relatively simple to solubilise **Consolidante 8020** with solvent, even a number of years after application. Surfaces consolidated with **Consolidante 8020** may be treated with **Antipluviol W**, silane- and siloxane-based water-repellent impregnator in water emulsion, or **Antipluviol S**, silane- and siloxane-based water-repellent impregnator in solvent, if required. If surfaces are to be painted with a coloured finish, use paint or plaster from the **Silexcolor** or **Silancolor** product lines. If using the product for restoration work,

we recommend keeping in close contact with the company's Technical Services Department.

Cleaning

Remove **Consolidante 8020** from clothing and tools with solvent.

CONSUMPTION

0.1-1.0 kg/m², depending on the type of substrate, its porosity, and depth to be consolidated.

PACKAGING

10 kg metal drums.

STORAGE

Consolidante 8020 may be stored for 12 months in its original packaging in a dry place.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Consolidante 8020 is highly inflammable. We recommend storing it away from naked flames and sparks, to avoid smoking, to prevent the build up of electrostatic energy and to work in well ventilated areas. It also irritates the eyes and may cause drowsiness and dizziness.

It is recommended to use protective gloves and goggles and to take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of water and seek medical attention. We

recommend working in well ventilated areas. If there is insufficient ventilation, wear a face mask with a filter. 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

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



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