



ASBESTOS
TREATMENT

Vinavil 03V

Temporary encapsulating for the treatment of asbestos cement sheets



WHERE TO USE

- Temporary encapsulating, type D in compliance with the 1999 Italian Ministerial Decree, for flat and corrugated asbestos cement sheets prior to removal.

Some application examples

- Removal of degraded corrugated asbestos cement roofing sheets from public and industrial buildings, following prolonged exposure to the aggressive agents present in the atmosphere.
- Temporary removal of serviceable asbestos cement coverings for special maintenance of buildings.
- Removal of flat sheet asbestos cement fire stop walls.
- Replacement of flat sheet asbestos cement in sandwich insulation walls.
- Removal of asbestos cement tanks.

TECHNICAL CHARACTERISTICS

Vinavil 03V asbestos treatment is a water dispersion base of vinylveratic copolymer and special additives according to a formula developed by the research laboratories of Mapei and Vinavil.

In appearance it is a red latex fluid, suitable for application by brush or roller. It can also be applied by low pressure manual pump spray, or by utilising appropriate "airless" spray equipment.

Vinavil 03V, due to its composition and the results obtained from testing, is suitable to use a temporary encapsulation for the treatment of asbestos cement sheets planned for removal.

The presence of asbestos in construction materials presents serious risks to the contamination of the environment and personal health.

The removal of degraded asbestos cement sheets is a most widely used application because it eliminates the whole potential source of asbestos exposure and the necessity to adopt specific precautions for activities taking place in the building.

However, during the removal operation one needs to adopt maximum precautions in order to prevent the asbestos fibres (which can be released from the covering sheets if they are in poor condition, are sawn or perforated), from dispersal into the air causing serious environmental pollution.

Asbestos fibres dispersed in the air are the most dangerous particles that can be inhaled, as they can reach the alveoli of the lungs and consequently cause permanent health damage.

The application of **Vinavil 03V** on materials containing asbestos that must be removed, impedes the detachment of weakly bound fibres, and ensures the workers of specialised firms operating in reclamation a more healthy working environment.

After drying, **Vinavil 03V** forms a red film which contrasts the colour of the support, as prescribed by the 1999 Italian Ministerial Decree, and is durable and extremely adherent to the treated surface.

This assures that all the operations for the removal of the treated sheets (disassembly, stacking, palletisation), including handling the final disposal, can be carried out

Vinavil 03V



TECHNICAL DATA (typical values)

In compliance with:

- Italian Ministerial Decree, August 20, 1999
- UNI 10686

PRODUCT IDENTITY:

Consistency: runny liquid

Colour: red

Density: 1.08 g/cm³

pH: 4.6

Dry solid content: 50%

Brookfield viscosity (rotor 4 rev. 20): 4300 cPs

Storage: 24 months in original packaging.
Protect from frost.

Hazard classification according to EEC 88/379: none

Customs class: 3905 11 00

SOLUTION IDENTITY:

Preparation: dilute 100 g of **Vinavil 03V Asbestos Treatment** with 25 g of water

Consistency: runny liquid

Colour: red

Specific gravity: 1.05 g/cm³

pH: 4.6

Brookfield Viscosity (rotor 1 rev. 20): 214 cPs

Dry solid content: 40%

APPLICATION DATA:

Recommended coverage: 200-300 g/m²

Drying time: 60 minutes

Thickness of dry film: 80-150 µm

FINAL PERFORMANCES:

Adhesion to a base of asbestos cement: excellent

with total respect to the environment.

RECOMMENDATIONS

- Do not use **Vinavil 03V** on asbestos cement sheets that are very dirty or have accumulated soil, moss, etc.: first proceed with a rough cleaning.
- Do not use **Vinavil 03V** on external surfaces when rain is forecast.
- Do not use **Vinavil 03V** at temperatures below +5°C.
- Do not use **Vinavil 03V** for permanent encapsulation: use **Aquaflex**.

APPLICATION PROCEDURE

Site preparation

All encapsulation operations must be carried out by a specialised company that operates according to the existing laws and it must adopt all necessary measures for the protection of the health and safety of workers.

Preparing the substrate

- Asbestos cement sheets

The treatment of asbestos cement sheets with **Vinavil 03V** is not intended to be long lasting, but it is designed to prevent free or poorly bonded fibres from the cement matrix dispersing into the air during disassembly and handling.

It is therefore not necessary to carry out preparatory cleaning beforehand.

Preparing the product

For the application by spraying, **Vinavil 03V** must be diluted with 25% water.

To prepare, pour 1 kg of **Vinavil 03V** into a clean container and then slowly add 250 g of water, while stirring mechanically. Mix for some minutes until the solution is completely homogeneous; for this operation it is preferable to use a low speed mechanical agitator to avoid an excessive formation of air in the solution.

For application by brush or roller, **Vinavil 03V** is ready to be used.

Applying the product

The solution of **Vinavil 03V** asbestos treatment can be applied by brush, roller or

by using a low-pressure manual pump or “airless” spraying equipment in a way that avoids dispersion of the fibres into the air.

Generally, one coat is sufficient on asbestos cement sheets (the thickness of the dry film is 80-120 µm).

Where the surface is very absorbent, it is advisable to repeat the treatment with a second coat.

Removal of materials

The removed material (soil, leaves, moss) that might contain asbestos must be packed in polyethylene sacks of adequate thickness taking all precautions that will reduce the danger of accidental rupture, and then transported for authorised disposal according to the local health regulations.

Cleaning

The equipment used for the preparation and application of the solution of **Vinavil 03V** may be cleaned, after use, with water. The cleaning water must be filtered before discharge.

CONSUMPTION

The consumption varies depending on the absorption of the base surface.

Indicatevely for:

- Flat or corrugated sheets of asbestos cement: 200-300 g/m².

PACKAGING

25, 10 and 5 kg drums.

STORAGE

The product in its original sealed packaging is stable for 24 months, stored at a temperature of not less than +5°C.

WARNING

N.B. - Although the technical details and recommendations contained in this product report 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.

Vinavil 03V

(GB) A.G. BETA

**All relevant references
of the product are available
upon request**



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