

® VINAVIL 03V

VINYLVERSATIC DISPERSION FOR TEMPORARY ENCAPSULATION OF ASBESTOS CEMENT SHEETS

APPLICATIONS

For temporary encapsulation of flat and corrugated asbestos cement sheets prior to removal.

Typical applications

- 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 a vinylversatic copolymer and special additives according to a formula developed by the research laboratories of Mapei and Vinavil.

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

VINAVIL 03V, due to its composition and

the results obtained from testing, is suitable to use as temporary encapsulation for the treatment of asbestos cement sheets planned for removal.

The quality and efficiency of VINAVIL 03V has been certified by the Centre of Studies and Research on the biological effects of inhaled dusts - Institute of work Medicine at the University of Milan.

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, that can be released from the covering sheets, if they are in poor condition or being 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 damage to the health.

The application of VINAVIL 03V on materials containing asbestos that have to 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 transparent film, durable and extremely adherent to the treated surface.

This assures that all the operations for the removal of the treated sheets (disassembly, stacking, palletization), including handling the final disposal, can be carried out with total respect to the environment.



PRECAUTIONS

- 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 imminent 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

Before starting the work, the area to be cleared must be enclosed in such a way as to prevent the presence of unauthorised personnel in the designated zone. Ventilation, heating and air-conditioning plants must be temporarily shut down.

Moreover, all the filters must be removed from the ventilation, heating and air-conditioning systems.

Worker protection

Workers must be supplied with suitable respiratory protection equipment and complete protective clothing.

Substrate preparation

- Asbestos cement sheets

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

Therefore it is not necessary to carry out preparatory cleaning beforehand.

Preparation of the product

Before proceeding with the application, VINAVIL 03V **asbestos treatment**, must be diluted with 25% water.

To prepare, pour 1 kg of VINAVIL 03V into a clean container and then add slowly 250 g of water, while stirring mechanically.

Mix for some minutes until the solution is completely homogenous; for this operation it is preferable to use a low speed mechanical agitator to avoid an excessive formation of air in the solution.

Application of 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.

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

TECHNICAL DATA:

PRODUCT IDENTITY

Consistency: runny liquid

Colour: white

Density: 1.08 ± 0.02 g/cm³

pH: 4.6

Dry solid content: 50 ± 1%

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

Storage: 12 months in original unopened packaging.
Protect from frost.

Health hazard according to EEC 88/379: no

Inflammability: no

Customs class: 3905 11 00

APPLICATION DATA

Preparation of the solution: dilute 100 g of VINAVIL 03V
asbestos treatment with 25g of water

Solution consistency: runny liquid

Solution colour: white

Specific gravity of the solution: 1.05 ± 0.02 g/cm³

pH of the solution: 4.6

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

Dry solid content of the solution: 40.0 ± 1%

Health hazard according to EEC 88/379: no

Inflammability: no

FINAL PERFORMANCE DATA

Adhesion to a base of asbestos cement: excellent



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 authorized 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.

Indicatively for:

- Flat or corrugated sheets of asbestos cement: 300/400 g/m² per coat.

PACKAGING

Drums of 25 - 10 and 5 kg.

STORAGE

The product in its original sealed packaging is stable for 12 months, stored at a temperature not less than +5°C.

WARNING

Although the technical details and recommendations contained in this 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.

N.B. FOR PROFESSIONAL USE ONLY



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MAPEI - ITALY



MAPEI - FRANCE



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