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PARALOID B 72

FOR THE CONSOLIDATION OF WOOD AND STONE

PARALOID B72 is a solid acrylic resin (methylacrylate-ethylmethacrylate) supplied in small granules which, after a thorough dissolution in the appropriate solvents, can be used as a consolidant other than its traditional use as an adhesive or fixative.

The solubility of **PARALOID B 72** expands to a wide variety of solvents like:

- ketones (acetone, methylketone);
- esters (ethyl acetate, butyl acetate and ethyl lactate) and ethers (Dowanol PM);
- aromatic hydrocarbons (toluene, xylene and mixtures like nitro solvent) and chlorinated hydrocarbons.

It is insoluble in water and very little in ethyl alcohol and aliphatic hydrocarbons.

The recommended solvents, for their low toxicity, are acetone (although highly volatile) and butyl acetate, while in case it is required a low level of odour we suggest to use Dowanol PM.

PREPARATION OF THE SOLUTION

The solution is generally prepared at a concentration varying from 2 to 10% of **PARALOID B 72** in solvent (2/10 parts PARALOID B 72 and 98/90 parts of solvent) with the use of a mechanical stirrer. The solvent is first placed in the dilution container, and subsequently, while stirred, the resin is added gradually until a perfect solubilization is made. A slight increase in temperature (up to 50-60°C, compatibly with the boiling point of the solvent) favours solubilization.

APPLICATION

The application of **PARALOID B 72** solution on objects to be consolidated can be made using typical methods for varnishing, by brush or with an airbrush. The best results are obtained by slow immersion of the object in need of consolidation in the solution. This way the consolidant is absorbed by capillary action by the porous support, penetrating even the most internal areas, consolidating the object completely and uniformly.

To avoid the presence of resin on the surface, it is recommended to always swab some pure solvent on the surface right after the application is made, before drying. This will avoid the risk of a film forming and glossy effects.

PURPOSES OF THE TREATMENT

The consolidation treatment as specified above resolves various functions, among which the most important are:

- a reduction in the number of micro-pores (diameter inferior to 0.1 mm) and a reduction in the number of larger pores (diameters over 10 mm), therefore rendering the object more compact and less friable;
- avoids the transformation of calcium carbonate (hard and compact) into calcium sulphate (friable and powdering) by the action of sulphurous anhydride in the air;
- reduces the absorption of water both on the surface and within the interior while leaving unaltered, in terms of colours and opacity, the final aspect of the treated object

Note: **PARALOID B 72** imposes only a temporary water-resistance and therefore it would be opportune to follow the consolidation with a treatment of siloxanes (SILO 111), or use directly an acryl-silicone resin, that is a mixture of Paraloid B-72 and a siloxane (ACRISIL 201 O.N.).

Information contained in this data sheet is based on our state of knowledge and on laboratory testing at the above-specified date. The User should determine, by preliminary tests, the suitability of the product for his intended purpose, and should observe the laws and regulations regarding health and safety.

C.T.S. S.r.l. guarantees the constant quality of the product but is not accountable for any damages caused by the incorrect use of a material. The product is intended for **professional use only**. In addition, the components and packaging can change at any time, without any obligation of prior notice.