



SOLAKRYL Dilution acrylate resin

For Restoration and Conservation Purposes

Thanks to its excellent manufacture qualities, Solakryl is a unique and essential product on the market. It can be applied in a wide range of fields, especially in the field of the protection and restoration of monuments. Solakryl has been successfully used over many years to restore and conserve objects of cultural heritage, not only wooden items, including organs, tower clocks, and alters, for example, but also real property made out of wood, even if the wood is in an advanced stage of damage.

Features

Products that derive from the Solakryl line can be defined as dilute acrylate resin that are based on pure methacrylate polymers and copolymers in organic solvents.

They have the following qualities:

- Improve the mechanical features of wood
- Increase the dimensional stability of wood
- Increase hydrophobia
- Increase resistance against UV radiation and chemicals
- Increase resistance against weather conditions and aging
- Polymers are thermoplastic (non-netting)
- Permanently soluble and do not change in color
- Frost-proof and non-sticky after drying
- Can be easily processed and used in the state as delivered or can be diluted with the respective solvent as needed

Use

- Consolidation (hardening, petrification, waterproofing) of wood
- Binding/sealing and gluing of wooden items
- Treatment of wood during production – improvement of properties
- Protective top varnish for various types of surfaces
- Repair of rustic furniture
- Making of antique objects out of wood (including patina coating)
- Consolidation of wall paintings, pictures, and plaster
- Sticking of wall-papers, paper, pasteboard, imitation eather, textiles, cork, etc.,
- respectively and for the gluing of these materials to metal, glass, porcelain, and ceramics.

Consolidation

Solakryl can be used in the consolidation of wood either on objects without polychromy or with polychromy resisting such solvents as toluene and xylene (polychromy on the basis of temper binders of the polysaccharide or protein type). Before waterproofing wooden objects with polychromy, it is necessary to first identify the type of bonder and test its solubility.



Basically, wood can be waterproofed in three ways

- Under reduced pressure (recommended Solakryl concentration 25%)
- Immersion under atmospheric pressure (recommended Solakryl concentration 10-15%)
- Coating or by the infusion method (recommended Solakryl concentration 10%)

Binding

Solakryl is suitable for binding/sealing thanks to their good adhesive power. Binding material is prepared according to specific needs; for example by filling it up with sawdust and suitable pigments.

Note: It is recommended that before using Solakryl, its application always be checked tested.

Type and composition:

Solakryl is made in three basic types which differ from each other in the type of polymer they consist of the solvent system involved.

SOLAKRYL BMX

Butyl methacrylate and methyl methacrylate copolymer dissolved in xylene. Content of nonvolatile substances: 36-40%.

SOLAKRYL BT 55

Poly-butyl methacrylate dissolved in toluene. Content of nonvolatile substances: 52-56%.

SOLAKRYL BX

Poly-butyl methacrylate dissolved in xylene. Content of nonvolatile substances: 52-56%.

Physical and Chemical Features

All types of Solakryl range from colorless to slightly yellow looking viscose liquids that are not soluble in water and which have an average density of 0,900g/m³. The average polymer molecular weight is 40 000.

The glass transition in the case:

of Solakryl BMX is approximately 48°C,

of Solakryl BT 55 and Solakryl BX it is approximately 45°C.

These products are fully comparable to competitive products produced by foreign companies thanks to the values of their parameters and their qualities of use. Their success on the market is also undoubtedly the result of the stable level of quality of these products.

PACKAGING:

Canisters: 1kg/5kg/10kg

Barrels: 180kg

Draslovka

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