

Lencolo 4004 High Purity Adhesion Promoter

Description

Lencolo 4004 is an acryloxy-functionalized silane polymer with multiple reactive groups capable of chemically bonding with both inorganic and organic substrates. It enhances coating adhesion to inorganic substrates (such as glass, ceramics, minerals) and metal substrates. This product is of high purity, offering better storage stability and more consistent overall performance compared to other similar products.

Technical Data

Composition	Acryloxy modified silane polymer
Appearance	Transparent liquid
Specific Gravity	1.04
Active Content (%)	100%

Product Features

It can significantly improve the adhesion of coatings to surfaces such as glass, metal hardware, ceramics, and fiberglass-reinforced composites, greatly enhancing overall adhesion.

It has broad compatibility and is well-suited for UV, PU, and baking enamel resin systems, simultaneously improving the coating's mechanical properties and chemical resistance.

It enhances the bonding of epoxy resins and their resistance to salt spray corrosion.

It can improve pigment dispersion and can be used with alcohol-based solvents.

Applications

UV system coatings; industrial coatings; inks, epoxy, alkyd, polyurethane, acrylic and other systems; water-based glass baking varnishes.

Recommended Usage

Can be used alone as a treatment solution, diluted 5–8 times with isopropanol, baked at 60–120 °C, and then coated with paint or adhesive. Alternatively, it can be added directly to paints, inks, or adhesives.

Dosage: 1–5 wt% of the total formulation.

Users are advised to determine the optimal dosage through trials prior to use.

Storage Conditions

To prevent premature polymerization due to the high reactivity of this product, keep it tightly sealed and store away from heat sources and direct sunlight. It is recommended to maintain storage temperature below 30 °C. Unused product should be promptly resealed and must not be left open. Under ventilated conditions at 25 °C, the product has a safe storage period of 6 months. Available packaging: 25 kg per drum

Tips: Lencolo 4004 has high purity grade with improved storage stability, especially suitable for enhancing coating adhesion to glass, metal hardware, ceramics, and fiberglass-reinforced composite substrates. Can be added directly to the main resin.

Note: Technical data represents typical values only. In view of the differences in formulas, production process, conditions, all the above statements must be adjusted according to the actual situation, our company does not make any promises. Our company reserves the right to reform its products without prior notice of any changes.