

Slip and mar resistance Agent

GENERAL INFORMATION

SLIP-AYD® FS 444 is a liquid additive for increasing surface slip and mar resistance of water based and polaric solvent based paints.

PHYSICAL PROPERTIES

Appearance : clear liquid
 Active matter : 50 %
 Density, 25°C
 (DIN 53217/3) : approx. 980 kg/m³
 Viscosity, 25 °C
 (ASTM D 2669): max. 200 mPa.s
 pH, 1% solution
 (ASTM D 1172) : approx. 8.5
 Flash point
 (ASTM D 92) : > 80 °C
 Composition : organic polysiloxane in di-propylene glycol ether

APPLICATION AND PROPERTIES

The addition of only a small amount of SLIP-AYD® FS 444 to the paint formulation has positive effect on the surface slip properties and mar resistance of the paint film. SLIP-AYD® FS 444 also improves the “coin-mar” resistance. (Coin-mar a term used to describe the marking of a dried coating when the milled edge of a coin or a similar metal object is rubbed against the surface of a coating).

SLIP-AYD® FS 444 is recommended for use in car finishes, wood varnishes, printing inks as well as in various other industrial paints and can be used in both air-drying and stoving paint systems.

In comparison to traditionally used silicones or surface modifiers, SLIP-AYD® FS 444 exhibits good compatibility and minimum side effects, such as poor recoatability.

Feature	Consequence
• small dosage	- increased surface slip
	- improved mar resistance
• wide compatibility	- good alkali and acid stability

SLIP-AYD® FS 444 is a polysiloxane based surfactant, compatible with a wide range of water borne paints, including WB polyurethane, WB alkydmelamine, 2-pack acrylates, epoxies as well as nitrocellulosics, UV-curable coatings and air-drying alkyd paints.

Characteristics include excellent alkali and acid stability to hydrolysis.

DOSAGE

The recommended dosage is 0.04 – 0.3% SLIP-AYD® FS 444, calculated on the total paint formulation. Optimum concentration varies with the specific composition and demands of the paint formulation. For maximum efficiency, the product should be added prior during the let-down stage of the paint manufacture process.

As the composition and production procedures of coatings may vary it is recommended to check each application.

HANDLING AND SAFETY

More detailed information on handling and safety for each product is included in the relevant material safety data sheet, available for each product.

QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 certificate, which guarantees that all operations are conducted according to the stipulated standards.

The information in this publication is intended to serve as guide but is not necessarily complete and is given without warranty. We recommend all users to determine the suitability of our products for their intended uses and caution them to comply with statutory obligations and to avoid infringing rights of third parties. We encourage users to contact us to discuss problems involving our products in order to facilitate their use.

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