

SLIP-AYD® FS 444

Slip and Mar Resistance Agent

GENERAL INFORMATION

SLIP-AYD FS 444 is a liquid additive for increasing surface slip and mar resistance of water borne and polar solvent borne coatings.

CHEMICAL & PHYSICAL PROPERTIES

Appearance	clear liquid
Active matter	50 %
Density, 25°C (DIN 53217/3)	approx. 980 kg / m ³
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

These are typical properties not to be used for specification purposes.

APPLICATIONS

- The addition of only a small amount of **SLIP-AYD FS 444** to the formulation has positive effects on the surface slip properties and mar resistance of the dry film. **SLIP-AYD FS 444** also improves the "coin-mar" resistance. (Coin-mar is 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 other industrial paints including both air-drying and stoving formulations.
- In comparison to traditionally used silicones or surface modifiers, **SLIP-AYD FS 444** exhibits good compatibility with minimum side effects like poor recoatability.

- **SLIP-AYD FS 444** is a polysiloxane based surfactant, compatible with a wide range of water borne systems including WB polyurethane, WB alkyd/melamine, 2-pack acrylates and epoxies as well as nitrocellulosics, UV-curable coatings and air-drying alkyd paints.
- Characteristics include excellent alkali and acid stability against hydrolysis.

KEY PROPERTIES

FEATURE	CONSEQUENCE
• low dosage	- increased surface slip - improved mar resistance
• wide compatibility	- good alkali and acid stability

INCORPORATION

For maximum efficiency, the product should be added prior to the let-down stage of the manufacture process.

As the composition and production procedures of coatings vary it is recommended to check each application for the best dosage and point of addition.

LEVELS OF USE

The recommended dosage is 0.04 - 0.3 % **SLIP-AYD FS 444** calculated on the total formulation. Optimum concentration varies with the specific composition and demands of the formulation.

HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

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SHELF LIFE

SLIP-AYD FS 444 has a shelf life of 3 (three) years from date of manufacture.

QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 / ISO 9002 certificates, which guarantees that all operations are conducted according to the stipulated standards.

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