

Resistance Reducing Agent

GENERAL INFORMATION

DAPRO FK 321 is an effective auxiliary for reducing the resistance of paints that are sprayed electrostatically.

PHYSICAL PROPERTIES

Appearance 20 °C : clear liquid
 Active content : approx. 75%
 Density, 20°C
 (ISO 2811-2) : approx. 940 kg/m³
 Viscosity, 25°C
 (ASTM D 2196) : approx. 125 mPa.s
 Color, 7% in water
 (DIN 53995) : max. 75 Apha
 Solubility : soluble in 2-propanol and xylene
 Flash point
 (ASTM D 65) : 27-29°C
 Composition : quaternary ammonium compound
 Ionic character : cationic

APPLICATION AND PROPERTIES

DAPRO FK 321 can be applied to various paint systems, such as alkyd melamine baking enamels, acrylic baking enamels and similar. In air-drying systems, DAPRO FK 321 might cause after-tack owing to its cationic character. This makes the product less suitable for application in these paint systems.

In many cases the electrical resistance of paint is too high to enable it to be sprayed electrostatically. However, with the addition of DAPRO FK 321 the resistance of the paint is not only reduced but can also be controlled to the required degree. Also, when DAPRO FK 321 is used, the addition of high amounts of a polar solvent for the same purpose is superfluous.

INCORPORATION

The addition level of DAPRO FK 321 is normally between 0.1 – 2.5% calculated on the total amount of paint. However, the actual quantity strongly depends on the nature of the paint system in question. DAPRO FK 321 can be added during any stage of paint manufacture.

Example:

The influence of DAPRO FK 321 in an acrylic baking enamel:

Without auxiliary product : 50,000 k.Ohm

With 0.2% of DAPRO FK 321: 6,500 k.Ohm

With 1.0% of DAPRO FK 321: 700 k.Ohm

HEALTH AND SAFETY DATA

Before using this product please consult our Material Safety Data Sheet (MSDS) for information on safe handling and storage. MSDS' can be found on the company website at www.elementis-specialties.com.

SHELF LIFE

DAPRO FK 321 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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