

functionalproducts

TEXAQUART® 253

Use

Cationic additive to increase the electric conductivity of coatings.

Composition

TEXAQUART 253 is an organic salt of quaternary ammonium hydroxide. It does not contain any halide, sulphate or phosphate radicals.

Specification

Density at 20 °C (DIN 51757)	1.01 - 1.03 g/cm ³
(wt/gal at 20 °C)	8.4 - 8.6 lbs)
pH-value (10 %)	7.0 - 7.4

Additional data

Appearance	yellow to brownish liquid
Viscosity Brook-field LVT at 25° C (QP 1356.0)	150 mPa.s
Active substance	78 - 81 %
Flash point	61 - 100 °C
Solvents	20 % higher aromatic solvents

Properties

Due to highly polar character TEXAQUART 253 increases conductivity or decreases resistance. It is easily soluble in aromatic solvents containing a small amount of butanol (approx. 3 to 5 %).

TEXAQUART 253 is highly surface-active and thus favours the dispersion of coatings into fine droplets whilst being electrostatically sprayed. When applying the additive in polyurethane systems, the pot-life of such coatings is considerably reduced.

When testing TEXAQUART 253 (1 % addition, calculated on total paint) in an air-drying alkyd resin paint, and an alkyd-melamine system, we have not noticed any important negative influence on the following properties:

- drying
- flow
- gloss
- yellowing
- adhesion
- flexibility
- hardness
- impact resistance
- corrosion.

Application

Therefore, it is predominantly used in coatings for electrostatic application formulated with solvents like butanol or other alcohols, e.g. in systems based on alkyd-amino or acrylic-melamine resins.

Dosage

Although TEXAQUART 253 may be added during the pigment dispersion stage in the ordinary course of paint production, it is mostly used as a «post-additive». This allows the conductivity to be specifically adjusted to the area in which maximum results may be expected from the type of spray equipment used. If the product is added to finished paints, it is essential to stir intensively to ensure complete homogenization.

The necessary amount of TEXAQUART 253 depends on the desired degree of conductivity. Subject to the polarity of the solvent composition of the paint, 0.2 - 1.0 %, in exceptional cases up to 2.0 % of the additive, may be used. Appropriate tests are recommended.

Regulatory Status

DSL, TSCA, EINECS, AICS, ECL, ENCS/MITI, ECS

Miscellaneous

Due to the large number of possible paint formulations and their widely varying requirements, customers are kindly requested to carry out appropriate tests before applying the product.

Revision-No.

1-10.2005 Effective October 10, 2005

Subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 2 years.

Suggestions of processing and using our products are given with best knowledge and information but without obligation. COGNIS does not accept any guarantee to the suitability of a product for the user's specific purpose. Furtheron the user himself assumes a liability to follow all legal regulations by using our products. The user can only pass on our sample to third parties with previous assent of COGNIS.



functionalproducts