

Additive TI

Moisture Scavenger, monofunctional isocyanate, 100 % active

Physical Characteristics

Appearance	Liquid, yellow
Density	1.29 g/cm ³
Color	APHA: Max. 50, ISO 6271

Features

- Eliminates the effects of humidity and prevents moisture related problems in polyurethane coatings
- Low viscosity, monofunctional isocyanate which chemically reacts with water to form an inert amide
- Used for the dehydration of solvents, fillers, pigments and bituminous tars
- Recommended to improve the storage stability of di-isocyanates against decomposition and discoloration
- Removes moisture introduced with solvents, pigments, and fillers in 1K and 2K PU systems

Applications

- 1K and 2K polyurethane systems
 - Solvents
 - Pigments
 - Fillers

Dosage

Additive TI can be added to moisture cured 1K PU coatings as a package stabilizer. Package the material after deaeration is complete. For 2K PU coatings, add Additive TI after the pigments and fillers have been wet out with the solvents in the dispersion. Add Additive TI at a rate of 0.5 - 4.0 % of the total weight of the formula if the moisture content of the coating is 0.05 - 0.30 %. Do not add the polyol or isocyanate to the batch for 24 hours to complete the moisture elimination reaction. A surplus of Additive TI can react with polyols. Best results are obtained when the moisture content can be determined accurately so that the addition rate of Additive TI can be calculated.

Storage

Protect from the effects of weathering and store at temperatures between 5 and 30 °C. Once opened, containers should be resealed immediately after each removal of the product.

Safety

The product is a highly reactive compound and therefore needs to be handled with care. Follow all precautions on the safety data sheet which contains information on labelling, transport and storage as well as handling, product safety and ecological effects. Please refer to the information sheet M004 entitled "Reizende Stoffe, ätzende Stoffe" (Irritant substances, corrosive substances) issued by the German Berufsgenossenschaft Chemie. The product reacts spontaneously and very vigorously with water, alcohols, amines, acids and alkalis. Such substances must therefore not be poured into vessels already containing the product. The reaction with water yields carbon dioxide at quantities of 1.3 litres per gram of water. The sudden formation of large amounts of gas in a container into which water has penetrated may cause the container to explode, even if the seal has already been broken. Care must therefore be taken during transport, storage and handling of Additive TI to prevent the penetration of moisture into the containers. Once added to the paint as a drying agent, existing guidelines on the application of paints containing solvents apply. Additional precautions are unnecessary provided that the addition rate is proportional to the water content and does not exceed about 5 % of the total formulation.

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