Darwin Chemical Company

600 N Pine Island Road Plantation FL 33324-1311



Additive TI

Monofunctional Isocyanate

Catalog Nr. Q547

Definition Additive TI is a reactive monofunctional isocyanate of low viscosity which reacts with

water generating an inert amide. Additive TI eliminates slight parts of humidity and

prevents moisture-related problems in the formulation of polyurethane coatings.

CAS Number 4083-64-1

Application Polyurethane coating manufacture additive for water prevention.

Are there additives which prevent a moisture-sensitive coating from becoming unusable when working in very humid regions or as the result of a reaction with water

during storage?

Yes. In principle, a distinction is made between additives which react with water to yield non-reactive secondary products which are readily soluble and additives which absorb the water. For example, Additive TI - a monofunctional isocyanate - reacts with water to product amine and CO2. In contrast, Additive OF - a non-reactive molecular sieve - binds the water by adsorption so that it is no longer available as a potential co-reactant. Both products can therefore be used as stabilizers in moisture-

sensitive coatings, e.g. two-component polyurethane coatings.

Additive TI eliminates moisture introduced with solvents, pigments, and fillers in 1-

component as well as in classical 2-component PU systems.

Furthermore Additive TI is recommended for the storage stabilization of purified

diisocyanates against decomposition and discoloration.

Technical Data Appearance

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Active ingredient content, % Density (20°), g/cm3

>96 approx. 1.29 DIN 51757

colorless to yellow-brownish liquid

Flash point , °C:

>150 DIN 51584

Packaging & Handling

Drums x 20 or 225 kgs

UN Number Class Packaging Group

Remarks

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