borchers
A MILLIKEN BRAND

Additive TI™

TECHNICAL DATA

Moisture Scavenger, monofunctional isocyanate, 100 % active

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

PHYSICAL CHARACTERISTICS

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

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. Contact between the product and ambient air should be minimized at all stages due to the moisture sensitivity of the product. Where technically feasible, nitrogen blanketing or nitrogen purging should be applied during product transfer, sampling, and dispensing operations.

Filled drums should be stored in a covered and appropriately protected area. Exposure to rain, precipitation, high humidity, direct weather conditions, or other environmental conditions that could adversely affect the integrity of the packaging or the quality of the product should be avoided. Wherever practicable, drums should remain sealed until the product is required for use. Following opening, it is recommended that the full contents of the drum be consumed within the relevant operation. The creation and prolonged storage of partially used drums should be avoided, as the remaining product may otherwise be exposed to atmospheric moisture.

During product withdrawal, the introduction of nitrogen through the smaller bung opening is recommended. This allows the displaced drum volume to be replaced by nitrogen rather than by ambient air, thereby minimizing moisture ingress during dispensing. If the entire contents cannot be used in a single operation, the remaining product should be maintained under a dry nitrogen atmosphere and the drum should be resealed promptly and securely following withdrawal. The duration and conditions of any subsequent storage should be assessed in accordance with the applicable product specification and site-specific quality requirements.

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, PPE requirements, and ecological effects. 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.

Contact us for more information

www.borchers.com/contact

PLEASE NOTE: As each customer's use of our product may be different, information we provide, including without limitation, recommendations, test results, samples, care/labeling/processing instructions or marketing advice, is provided in good faith but without warranty and without accepting any responsibility/liability. Each customer must test and be responsible for its own specific use, further processing, labeling, marketing, etc. All sales are exclusively subject to our standard terms of sale posted at www.milliken.com/terms (all additional/different terms are rejected) unless explicitly agreed otherwise in a signed writing.

© Copyright 2026 Milliken & Company. All rights reserved.
10/2026

Milliken