

# Camdate TI

## Synonyms

p-Toluenesulphonyl isocyanate  
Tosyl isocyanate  
CAS No: 4083-64-1

## Description

Low viscosity, reactive monofunctional isocyanate.

## Use

Camdate TI is a Stabiliser and Moisture Scavenger in coatings & urethane raw materials. Reacts with water and all compounds that contain hydrogen atoms. Prevents moisture related issues. Predominantly used in moisture-curing Polyurethane one-pack coatings and also in conjunction with Camdate OF in two-pack Polyurethane coatings. Can be used in pigmented and un-pigmented systems.

## Physical & Chemical Properties

EINECS No: 223-810-8  
Density (@ 20°C): 1.29      DIN 51757  
Form: Liquid  
Colour: Yellowish  
Odour: Pungent  
Flash Point: 150°C      DIN 51584  
NCO Content: approx 20-22%

Reacts with water to split off Carbon Dioxide and Toluenesulfonamide. Causes crystalline reaction products, which are soluble in commonly used paint solvents.

## Safety

See Camida MSDS

## Quality

See Camida Product Data Sheet CAM11758

## Packing

25kg Net Drum  
Other packing options may be available upon request.

## Application/Formulation

In theory, approximately 12g of Camdate TI will react with every 1g of water. In practice however, the optimum figure is generally an excess of TI (20g to 1g water).

The optimum addition level should be determined by series testing.

### Suggested addition levels

Moisture curing one-pack varnishes:  
Approx 1%-2% on total formulation

Moisture curing one-pack pigmented coatings:  
Camdate TI Approx 1%-4% on total formulation

Two-pack Polyurethane coatings  
Camdate TI Approx 1%-4% on total formulation

### Start Point Formula

Camdate TI	2.04 *
Xylene	11.76 *
Aliphatic Isocyanate (100% Solids)	85.18 *
Camdate OF	1.02 *
	<b>100</b>

\* Parts by Weight

Camdate OF & Camdate TI will react with each other; therefore avoid direct contact between the two products.

The two products can be used in combination to obtain better stabilisation characteristics. A ratio of 2 parts TI: 1 part OF is suggested. When the two products are to be used in the same formulation, the preferred method is to use the Camdate TI to stabilise the coating prior to adding the Camdate OF. Adding OF before stabilisation with TI will reduce its effectiveness.

## Further Information

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