

DESCRIPTION

Tyzor® IBAY is a 100% active titanium ethyl acetoacetate complex. It is a yellow-to-red liquid that is sensitive to moisture. High reactivity at low temperatures enables Tyzor® IBAY to react with common functional groups such as R-OH, M-OH, SiOH and R-COOH for crosslinking, adhesion promotion and coating formation on polymers, mineral substrates and metals. It may also be used as a drying agent.

Tyzor® IBAY is particularly well-suited for crosslinking silicones and silanol end-capped polymers. It also is used as a catalyst in processes such as esterification, transesterification, addition, polycondensation and similar reactions.

APPLICATIONS

SILICONE SEALANTS

Tyzor® IBAY is used in Room-Temperature-Vulcanizing one-component (RTV-1) silicone sealants to increase cure rates, crosslink silanes or promote adhesion. It provides these same benefits when used with silanol end-capped polymers such as polypropylene oxides, acrylates or polyurethanes.

PAINT ADDITIVE

Tyzor® IBAY crosslinks functional polymers or binders, promotes adhesion, and can serve as a binder itself.

REACTION CATALYST

reactions

Tyzor® IBAY is an effective catalyst for esterification, transesterification, condensation and addition

to produce various esters, polyester, polyurethanes, epoxy sealants, adhesives and similar compounds. It is low in toxicity, produces high yields, can be used at low concentrations and is easy to work with.

HOW TO USE

Tyzor® IBAY is usually formulated with other ingredients in catalysis, crosslinking, paint and sealant applications. To prevent undesired pre-reactions with water or other components it is often the last ingredient added.

TYPICAL PROPERTIES

| PROPERTY | TYPICAL VALUE |
|--|--|
| TiO ₂ %, approx. | 10.6 |
| Active content, %, approx. | 100 |
| Color | Yellow to red |
| Density @ 20 °C (68 °F), g/cm ³ (lb/gal), approx. | 1.08 (9.01) |
| Viscosity, mPa, approx. | 60 |
| Pour point, °C (°F) | -35 (-31) |
| Boiling point, °C (°F) | 153 (307.4) |
| Flash point, closed cup, °C (°F) | 55 (131) |
| Solubility | Miscible in most organic solvents. Decomposes in water |

SAFETY AND HANDLING Please refer to the current Material Safety Data Sheet for detailed safety, handling and toxicity information.

TYPICAL SHELF LIFE 2 years



Dorf Ketal Speciality Catalysts LLC
3727 Greenbriar Dr., Suite 114
Stafford, TX 77477
USA

Phone: +1-281-491-3700
E-mail: tyzor@dorketal.com
www.dorketal.com

The information contained in this sheet is provided free of charge and is based on technical data that Dorf Ketal believes to be correct and reliable. It is intended for use by persons having technical skill and at their own discretion and risk. We make no warranties, express or implied, and assume no liability in connection with any of this information as the conditions of use are outside our control. In addition, none of the contents of this publication should be taken as a license to operate under, or a recommendation to infringe any patent.