

DESCRIPTION

Tyzor® IAM is a highly effective crosslinker that improves printing ink adhesion and resistance to water, solvents and heat. It is a titanium-based phosphate complex that is very reactive during curing yet stable in solvent-based inks.

Tyzor® IAM enhances curing and decreases drying times and/or cure temperatures. It has little or no influence on ink color, doesn't release acetylacetone and is effective at low concentrations. It is non-toxic and approved for use in food packaging inks.

Tyzor® IAM is stable in flexo and gravure inks and is compatible with many ink additives. It improves adhesion to many substrates, including glass, aluminum and other foils.

HOW TO USE

Tyzor® IAM is typically added to ink formulations at between 1.0 and 4 percent by weight, and it is usually added last and at relatively low temperatures to prevent undesired pre-reactions. Plastic substrates such as those in plastic foils based on polypropylene, polyethylene or polyester require pretreatment by corona, flame, or plasma in order to create functional -OH or -COOH groups at the surface.

TYPICAL PROPERTIES

PROPERTY	TYPICAL VALUE
TiO ₂ %, approx.	14.7
Form	Liquid
Color	Colorless to light yellow
Odor	Sweet
Pour point, °C (°F)	< -50 (-58)
Boiling point, °C (°F)	80 (176)
Flash point, °C (°F)	12 (53.6)
Specific gravity @ 25 °C (77 °F), approx.	1.0
Viscosity @ 25 °C (77 °F), mPa, approx.	20
Solubility	Decomposes quickly in water.

SAFETY AND HANDLING Please refer to the current Material Safety Data Sheet for 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

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