

Dynasylan® TRIAMO

Triamino-functional propyltrimethoxysilane

Technical data

Properties and test methods	Value	Unit	Method
Density (20 °C/ 68 °F)	approx. 1.03	g/cm ³	DIN 51757
Refractive index n (20,D)	approx. 1.46	-	DIN 51423
Viscosity (20 °C/ 68 °F)	approx. 20	mPa·s / cSt	DIN 53015
Boiling point (2.7 hPa / 2 torr)	approx. 114-168	°C/ °F	DIN 51356
Flash point	approx. 137/302	°C/ °F	EN 22719

Registrations

Dynasylan® TRIAMO

EINECS/ELINCS (EU):	Yes
AICS (Australia):	Yes
DSL/NDSL (Canada):	Yes
PICCS (Philippines):	Yes
TSCA (USA):	Yes
IECS (P.R. China):	Yes
ENCS (Japan):	No
ECL (South Korea):	Yes

Dynasylan® TRIAMO is an organofunctional silane possessing three reactive amino groups and a hydrolyzable trimethoxysilyl group.

The dual nature of its reactivity allows **Dynasylan® TRIAMO** to bind chemically to both inorganic materials (e.g. glass, metals, fillers) and organic polymers (e.g. thermosets, thermoplastics, elastomers) thus functioning as an adhesion promoter and surface modifier. **Dynasylan® TRIAMO** is a clear, light to dark yellow liquid with a slight amine-like odor. It is soluble in alcohols, ketones, esters and aliphatic and aromatic hydrocarbon solvents.

Safety and handling

Before considering the use of **Dynasylan®** products please read its Material Safety Data sheet (MSDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use. The Material Safety Data Sheet is available after registration on our website www.dynasylan.com or upon request from your local representative, customer service or from Evonik Industries AG, Product Safety Department, E-MAIL sds-im@evonik.com.

Packaging and storage

Dynasylan® TRIAMO is supplied in 25 and 200 kg drums. In the unopened container **Dynasylan® TRIAMO** has a shelf life of at least one year.

Properties and application

Dynasylan[®] TRIAMO is used in applications such as:

- PVC-pastisols as an additive (ca. 0.5-1%) to improve adhesion between PVC and metals
- Foundry resins:

Important product effects that can be achieved through the use of **Dynasylan**[®] TRIAMO include:

- improved adhesion
- improved moisture and corrosion resistance

Reactivity

In the presence of water, the methoxy (Si-OCH₃) groups of **Dynasylan**[®] TRIAMO hydrolyze to form reactive silanol (Si-OH) groups which can bond to a variety of inorganic substrates. The amine groups of **Dynasylan**[®] TRIAMO can react with a suitable polymer.

Dynasylan[®] TRIAMO may be used with PVC and silicones.

Processing

Dynasylan[®] TRIAMO may be added to polymer matrix as an additive.

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