IOTA-602 N-(2-aminoethyl)-3-aminopropylmethyl-dimethoxysilane

CAS NO. : 3069-29-2

IOTA-602 finds use as an:

1. Adhesion promoter in polysulfide, polyvinyl chloride plastisol, silicone, one- and two-part urethanes, and epoxy adhesives and sealants

2. Additive in phenolic and epoxy molding compounds

3. Additive to latex coatings, adhesives and sealants

Features and Benefits:

Feature	Benefit
Polyamino functionally	Reactive group for coupling with a variety of resins. Good wetting of substrates.
Difunctional silane	Good stability in waterborne systems. Improves adhesion while maintaining elongation of elastomeric systems. Improved shelf-life of formulated products.

Typical Physical Properties:

Physical Form	Light yellow to colorless clear liquid
Specific Gravity at 20oC, g/cm3	0.960 – 0.980
Purity, %	97.0% min
Refractive Index at 25oC	1.440 – 1.455
Colour, Pt-Co	Max 20

Applications:

Silane IOTA-602 may be used as an additive, thereby eliminating the need for special primers in numerous bonding applications. Specific

systems that demonstrate improved adhesion when silane IOTA-602 is used are:

1. RTV Silicones and Hybrid Silane-Crosslinked Sealants

Silane IOTA-602 addition to one- and two-part silicone-crosslinked sealants improves adhesion to a variety of substrates, including glass, aluminum and concrete. Silane IOTA-602 provides enhanced adhesion performance without negatively impacting elongation. It is added at a loading of 0.5 to 1.0 percent by weight.

2. Polysulfide Sealants

When added to one- and two-part polysulfide sealants, silane IOTA-602 provides better adhesion to a variety of substrates, including glass, aluminum and steel.

Silane IOTA-602 is typically used at a loading of 0.5 to 1.0 percent by weight of the sealant. It disperses well into the sealant and produces cohesive failure in the sealant rather than adhesive failure of the bond between the sealant and the substrate.

Furthermore, the use of silane IOTA-602 eliminates the need for primers normally required to achieve adhesion to surfaces.

3. Plastisol Sealants

Adding silane IOTA-602 as a replacement for polyaminoamide adhesion promoters in plastisol sealants improves bonding to metal substrates. In addition to increased strength, the silane-modified plastisol sealant has better overall appearance than a system that uses polyaminoamide adhesion promoters.

silane IOTA-602 modified systems have a very light color, and the cured compound is bubble-free.

4. Additive in Phenolic and Epoxy Molding Compounds

Silane IOTA-602, as an additive in phenolic and epoxy molding compounds, reduces the water absorption of molded composites. This, in turn, leads to improved wet electrical properties, particularly at low frequencies.

Validity period and storage:

Stored in cool and dry place, avoiding water, tinder, heat source and light, the validity period will be 6 months on such condition.

Package:

1. 20KGS/Plastic Drum

2. 195 KGS/Steel Drum

3. 950KGS/IBC