

NEVOSIL[®] S 940

Silane

Characteristics

Aminoethyl-aminopropyl methoxysilane mixture.

Properties

- ✓ It hydrolyzes autocatalytically in the presence of moisture to form reactive silanols.
- ✓ Reactive silanols subsequently react with themselves to produce siloxanes or can bind to inorganic substrates.
- ✓ Besides, it can also interact with numerous organic polymers and thus function as a molecular bridge between organic and inorganic substrates.

Application

NEVOSIL[®] S 940 is especially used as a surface modifier for glass fibers, glass-fiber fabrics, and additives such as glass and mineral wools, mica, talc, kaolin, metal oxides and etc.

NEVOSIL[®] S 940 is also used as an adhesion promoter for polysulfides and phenolic resins based adhesives, coating materials and insulating materials.

Technical Data

Appearance	Yellowish, transparent liquid
Density (25°C)	~0,98 (g/ml)
Boiling point (3 mbar)	>250 (°C)
Flash point	>90 (°C)
Refractive Index	~1.440

* These figures are only intended as a guide and should not be used in preparing specifications.

Processing

NEVOSIL[®] S 940 is highly miscible with standard organic solvents, such as ethers and hydrocarbons. It demonstrates typical amine behavior when exposed to acids, epoxides or isocyanates. It is highly soluble in neutral water and undergoes hydrolysis. Caution: due to the enthalpy of solution, mixing NEVOSIL[®] S 940 with water is exothermic. It is recommended that NEVOSIL[®] S 940 should be added to water, not vice versa, while stirring. Due to the highly reactive nature of NEVOSIL[®] S 940, contact with moisture must be avoided during processing to prevent undesired hydrolysis.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants with the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials.

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NEVOSIL® S 940 in glass-reinforced or mineral-filled polymers:

Fillers are treated either with pure NEVOSIL® S 940 or a solution thereof. It may be necessary to pre-treat the substrate with water. The modified filler is preferably bonded to the organic material by mixing it with a standard type of amine catalyst.

NEVOSIL® S 940 is added directly to the polymer either before the organic material is compounded with the filler or at the same time. A prerequisite for the blending process is that NEVOSIL® S 940 and the polymer are compatible and that the resin and NEVOSIL® S 940 do not react prematurely.

NEVOSIL® S 940 as a surface modifier:

NEVOSIL® S 940 is applied as an aqueous or organic solution should be used as a primer. Once NEVOSIL® S 940 has dried and bonded to the surface, an organic coating may be applied using standard techniques.

Storage / Shelf Life

NEVOSIL® S 940 should be stored in sealed containers in a cool, dry place. It has a shelf life up to 12 months if stored in tightly closed original containers at 25°C. The "Best use before end" date of each batch is shown on the product label. If the material is kept beyond the recommended shelf life, it is not necessarily unusable, but a quality control should be performed on the properties relevant to the application.

Packaging

30, 60, 120 and 200 kgs plastic drums or 1,000 kgs IBC containers.

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