

Technical Data Sheet

Capatue™ SCA-Y25M

Abstract

SCA-Y25M is unique isocyanate functional silane. The isocyanate functionality exhibits the typical reactivity of an alkyl isocyanate and will react with most reactive hydrogen containing compounds. The silane portion of these products can then crosslink with each other or be used to adhere to a variety of substrates.

Chemical Name

3-Isocyanatopropyltrimethoxysilane

Synonyms

Trimethoxy(3-isocyanatopropyl)silane;

3-(Trimethoxysilyl)propyl isocyanate

CAS Registry Number

15396-00-6

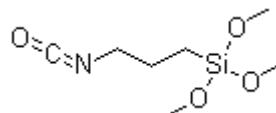
EINECS

239-415-9

Molecular Formula

$C_7H_{15}NO_4Si$

Molecular Structure



Molecular Weight

205.28

Equivalents

Product	Supplier
Silquest® A-Link 35	Momentive (formerly OSi Specialties)
GENIOSIL® GF 40	Wacker
KBM-9007	Shin-Etsu

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**Typical Properties**

Index	Value
Appearance	Transparent clear liquid.
Active Material	> 95%
Specific Gravity (25°C)	1.07
Flash Point, °C	99

Applications and Performance

Capatue™ SCA-Y25M is unique isocyanate functional silane. The isocyanate functionality exhibits the typical reactivity of an alkyl isocyanate and will react with most reactive hydrogen containing compounds. The silane portion of these products can then crosslink with each other or be used to adhere to a variety of substrates.

Capatue™ SCA-Y25M is reactive with –OH, –NH₂, and –SH functional polyols and polymers, providing a moisture-cure silane crosslink mechanism, provides good adhesion to difficult substrates when employed as an adhesion promoter, offers fast hydrolysis in the presence of atmospheric moisture, provides superior wet adhesion to glass, metal and other inorganic substrates, resulting bond offers excellent thermal, chemical and UV stability.

Capatue™ SCA-Y25M is excellent candidates for its unique functionality for use as:

1. Crosslinking for one-part moisture curable urethane adhesives, sealants and coatings when used to endcap diol of polyol polymers
2. Adhesion promoters for one-part moisture curable and two-part reactive urethane systems.
3. Adhesive promoters for silicon sealants or coating seeking enhanced adhesion to organic substrates on which active hydrogen species are present, such as nylon or other plastics.

Packing

The regular packing of this product is 25kg plastic pail, 200L steel drums and 1000L immediate bulk container.

Storage and Shelf Life

Should be stored in dry, cool, ventilated room; keep away from water, moisture,

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high temperature and fire. This product has a shelf life of at least 12 months if stored in tightly closed original container at room temperature.

If this product is kept beyond the shelf life recommend on the product label, it is not necessarily unusable, but a quality control should be performed on the properties relevant to the application.

Product Safety and Handling

When considering the use of any Capatue products in a particular application, you should read our latest Material Safety Data Sheets (MSDS) thoroughly for handling instructions, personal protective equipment if necessary, other safety issue and toxicological data as well as for information on proper transportation, storage and use to ensure that the use you intend can be accomplished safely. Our latest Material Safety Data Sheets (MSDS) and other product safety information are available at www.capatue.com or upon request, from our customer service department.

Use of other material in conjunction with Capatue products may require addition precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

This product is for industry use only; it is neither tested nor represented as suitable for food, medical or pharmaceutical uses.

Limited Warranty Information

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that Capatue's products are safe, effective, and fully satisfactory for the intended end use.

Suggestions of use shall not be taken as inducements to infringe any patent.

Capatue's sole warranty is that the product will meet the Capatue sales specifications in effect at the time of shipment.

Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

Capatue specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability.

Capatue disclaims liability for any incidental or consequential damages.

Customer must do enough tests before their regular production to ensure that our product is suitable for their specific application.

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