

Si
siloxene

ARA

XenCure™
XenSlick™

XenLink™
XenBlu™

Product Guide

2025



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WE BUILD
MOLECULES
SO YOU CAN
BUILD THE
FUTURE
DISCOVER
SILOXENE'S
SILANE-HYBRID
TECHNOLOGY

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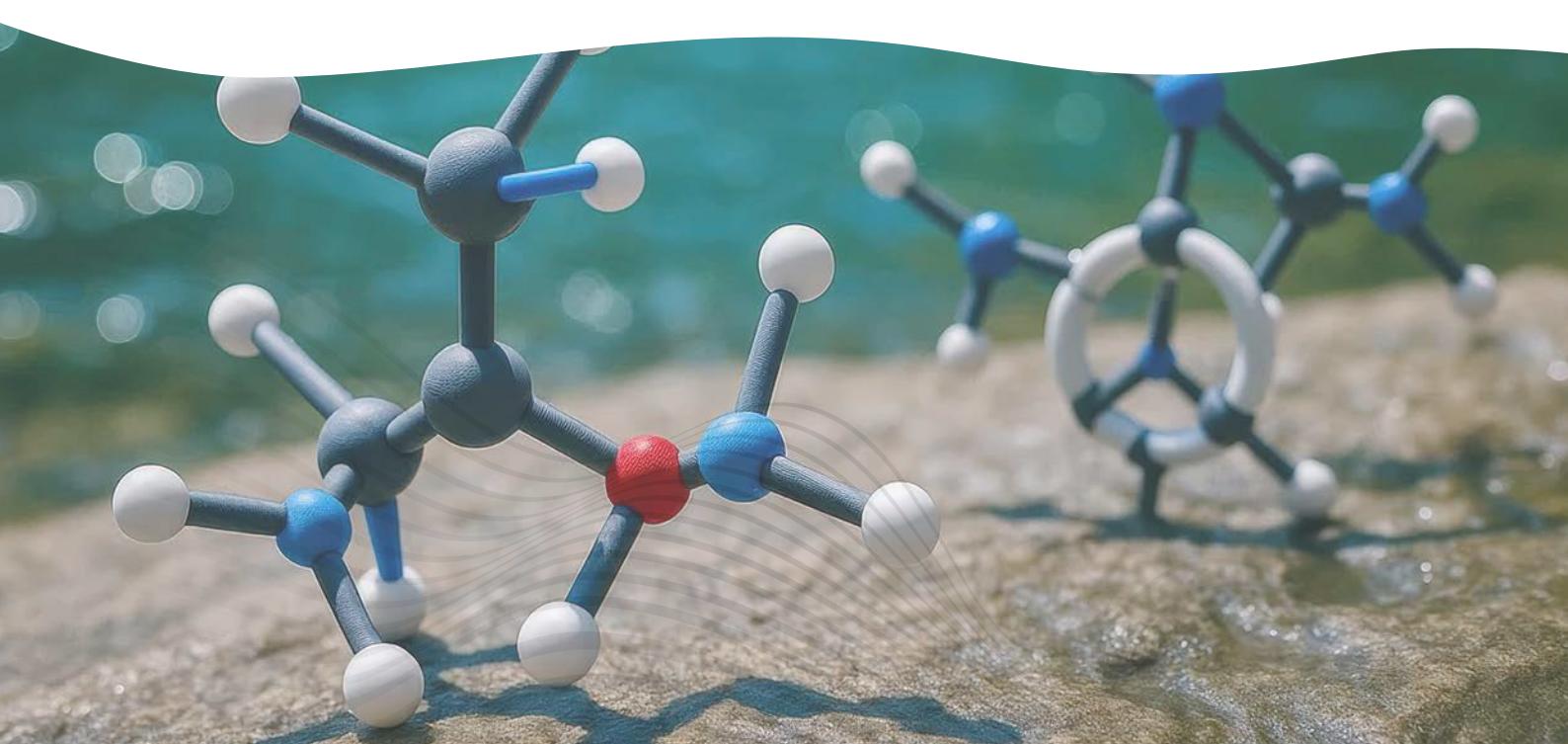
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Siloxene Product Benefits

Description of generic benefits of the siloxene technology

SILOXENE MATERIALS ARE

-  SOLVENT FREE
-  NON-FLAMMABLE
-  LABEL FREE
-  TRANSITION METAL FREE
-  NANO MATERIALS FREE
-  USABLE IN BOTH AQUEOUS AND ORGANIC FORMULATIONS

SILOXENE MATERIALS OFFER

-  IMPROVED PROCESS SAFETY
-  ENHANCED PRODUCT PROPERTIES
-  TIME AND ENERGY SAVINGS
-  CIRCULAR ECONOMY BENEFITS
-  TAILORABLE PRODUCT FEATURES
-  SIMPLIFIED TRANSPORTATION AND LOGISTICS

Functional silanes are well known to offer various advantages in organic-inorganic interface compatibilization across a wide range of applications. Siloxene products represent **the next evolution step in functional silane technology**, offering tailororable products, lower cost of solution to reach the same or better overall performance while simplifying production and logistic processes. Most importantly, the siloxene technology offers **numerous possibilities** for product improvements and **new solutions** not accessible with standard silanes.



In **adhesives and sealants**, siloxene materials allow for customized control over adhesion and crosslinking reactivity. This enhances performance and durability in both dry and wet environments.



In **glass fiber composites**, siloxene products serve as next-generation formulation ingredients. They enhance mechanical strength and resilience, while also supporting innovative sizing and finishing solutions compatible with multiple resin systems.



In **coatings**, siloxene products offer tailored adhesion to substrates, faster curing, enhanced resistance to weathering and chemicals and improved surface qualities such as gloss, scratch resistance and reduced friction.



In **textile applications**, siloxene products enhance fabric feel, improve dye adhesion and durability and allow customized modifications for compatibility with all common polymers and resins.



In **surface treatment** and modifications, siloxene products enhance adhesion aspects between various interfaces and can adapt to each one separately (e.g. polymer-metal and biopolymer-mineral filler) thus extending the standard silane functionality profiles.

Discover our Products

Functional Q-T polysiloxane materials

XenCure™ Products

XenCure™ products consist of Q-T polysiloxanes containing **reactive functional groups**. These products make for outstanding additives in reactive curing systems.

XenSlick™ Products

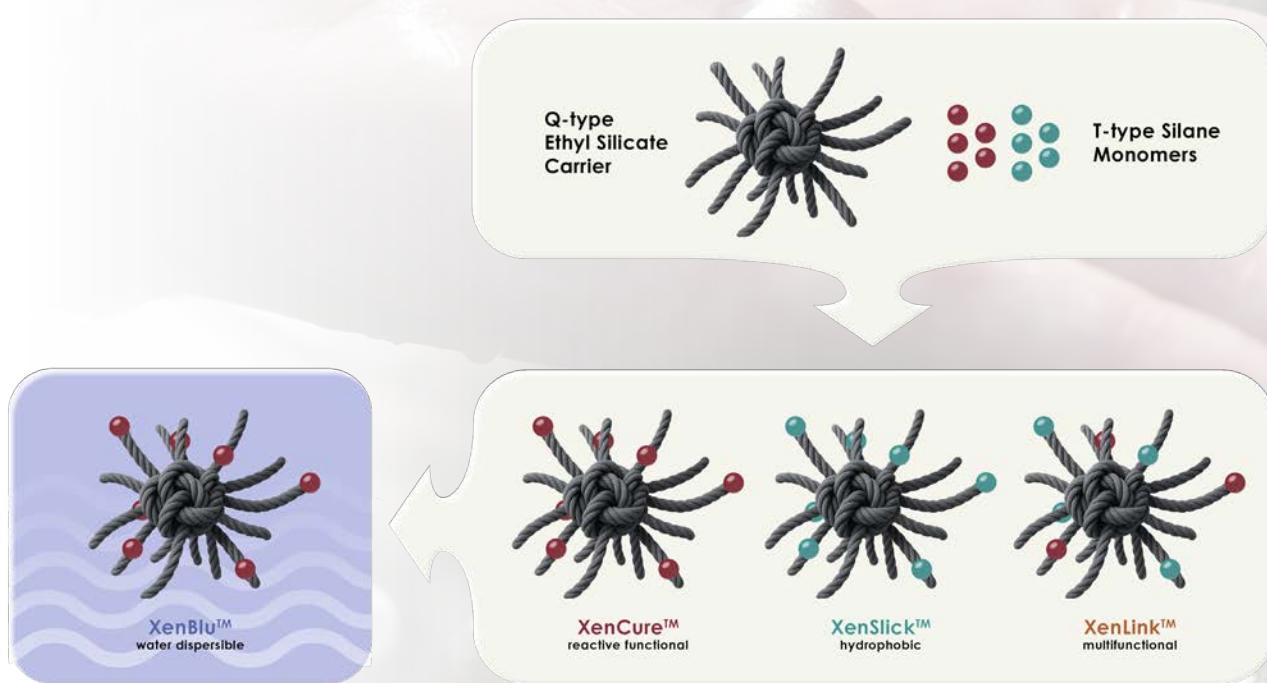
XenSlick™ products consist of Q-T polysiloxanes containing **alkyl or other hydrophobic functional groups**. These products display excellent hydrophobic and emulsifying properties.

XenBlu™ Products

XenBlu™ products consist of Q-T polysiloxanes engineered with modified reactive functional groups, designed for **water-based product formulations** with superior performance.

XenLink™ Products

XenLink™ products consist of Q-T polysiloxanes combining **reactive functional groups and non-reactive (hydrophobic) functional groups**



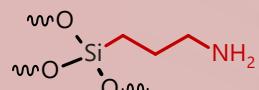
INTRINSIC ADVANTAGE OF Q-T POLYSILOXANES

Our technology uses Q-T polysiloxane dendrimers, which combine active, organofunctional T-silanes with a nonfunctional ethylsilicate (Q-silane) carrier. This allows precise placement of functional groups where needed. Thanks to their "core-shell" structure, the T-type functional groups on the Q-carrier's surface are highly accessible, offering a major advantage over conventional silanes.

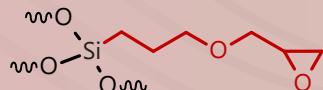
As polymeric materials, siloxene products have fewer hydrolysable groups, resulting in lower VOC emissions. Additionally, our Q-T resins are non-flammable and are exempt from dangerous goods classifications, simplifying handling and transport.

Q-T Polysiloxane Chemical

The following “” functional groups are available for XenCure™ materials:



XenCure™ A



XenCure™ G



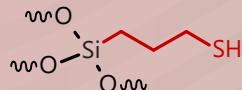
XenCure™ A2



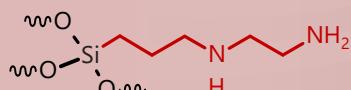
XenCure™ U



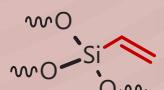
XenCure™ A1



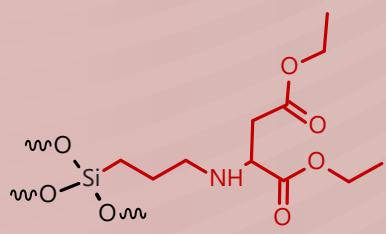
XenCure™ S



XenCure™ 2A



XenCure™ V



XenCure™ A9

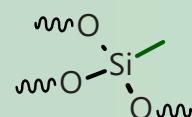


Functional groups and their loading can be combined in almost any combination, offering hundreds of fully tailored options. Can't find what you're looking for in our standard product range? Please contact our Sales Team for inquiries about custom-made products.

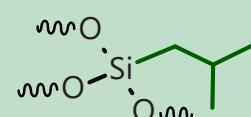
Functional Group Diversity



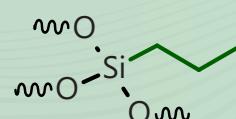
The following “  ” functional groups are available for XenSlick™ materials:



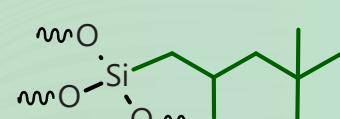
XenSlick™ M



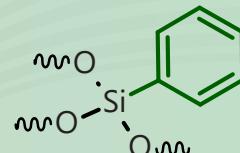
XenSlick™ iB



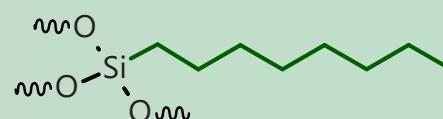
XenSlick™ P



XenSlick™ iO



XenSlick™ R



XenSlick™ O

Multifunctional Products

Mixed functionality Q-T polysiloxane materials

EXPANDING YOUR PRODUCT OPTIONS

Our unique materials platform offers the advantage of coupling multiple functional silane constituents in one and the same product. In this way, the properties of our materials can be fine tuned to your exact application needs.

There are three types of multifunctional product options:

- Multifunctional XenCure™ products, comprising multiple, non-identical reactive functional groups
- Multifunctional XenSlick™ products, comprising multiple, non-identical hydrophobic functional groups
- XenLink™ products, combining at least one hydrophobic and one reactive functional group



CUSTOMIZABLE REACTIVITY AND FORMULATION COMPATIBILITY PROFILES

Multifunctional product options offer the ability to tune reactivity, compatibilization of constituents as well as controlling wetting and adhesion profiles in any given product formulation.

Example: XenCure™ VS

Multifunctional XenCure™ products are typically used in reactive multi-resin crosslinking systems – both functional groups present create **chemical linkages to two different types of polymer systems** (for example, epoxy and acrylate). Alternatively, one functionality acts as crosslinking site and another one as adhesion promoter.

Example: XenLink™ AO

Multifunctional XenLink™ products feature a combination of reactive and hydrophobic groups. The **reactive functionality takes part in a curing step** or serves as adhesion promoter, while a **non-reactive group** allows for total **control of the hydrophobicity** and surface texture or toughness. XenLink™ products can also improve the compatibility of XenCure™ products in a formulation by adjusting the polarity/solubility profile of the material.

Example: XenSlick™ MR

Multifunctional XenSlick™ products feature at least two hydrophobic functionalities which provide additional options for increased performance. These products offer **improved hydrophobicity or surface properties**. They alter the emulsification, defoaming or rheological behavior as well as reduce the overall organic carbon content and thus maximize eco-benefits of a given product or solution.

Nomenclature of Product Codes

For XenCure™, XenSlick™ and XenLink™

XenCure™ **AU338**

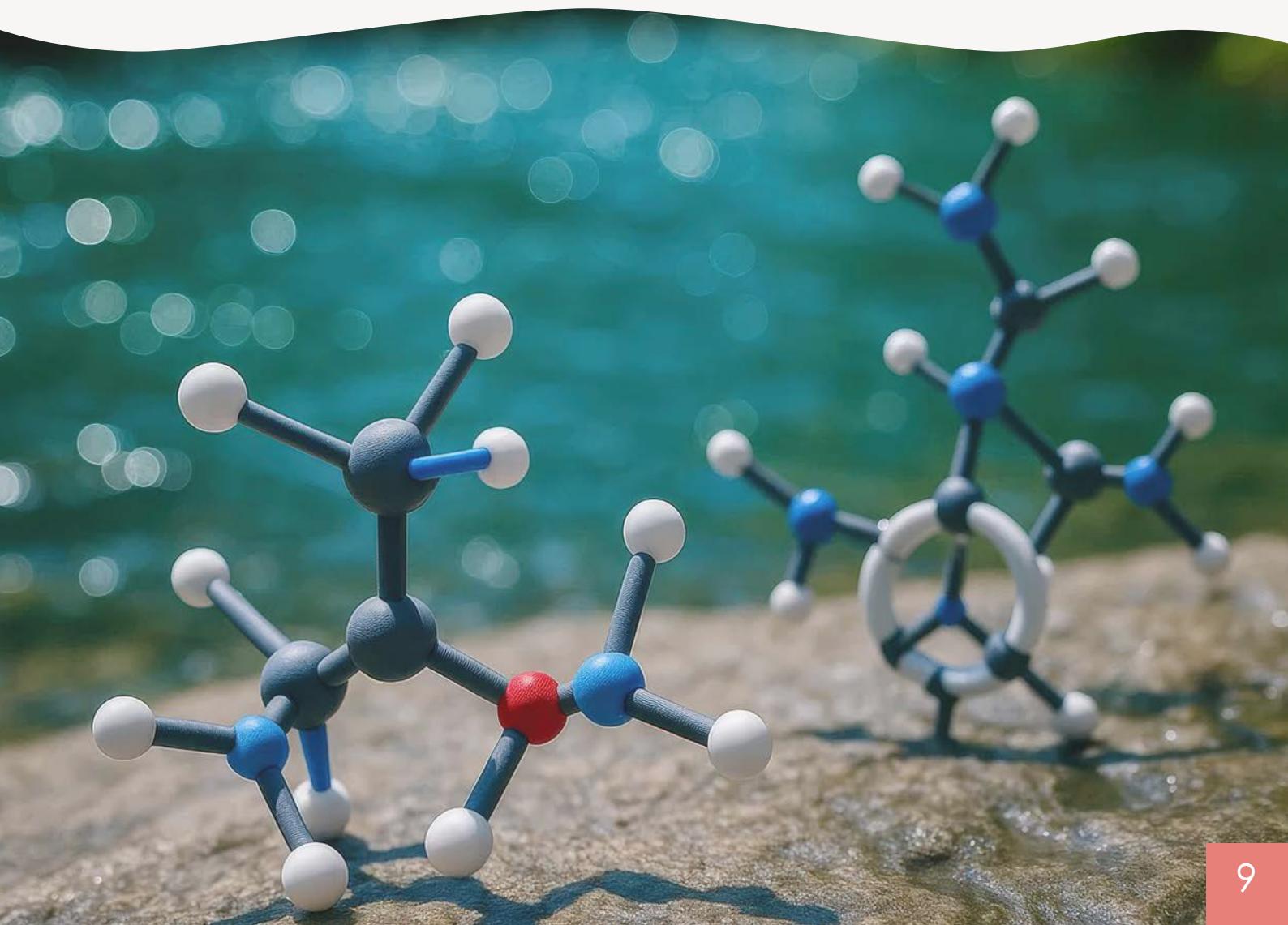
Amino-Methacrylate functional Q-T polysiloxane

Q-type "core" size

- 2:** "small" (MW 2500-2900)
- 3:** "medium" (MW 3000-3500)
- 4:** "large" (MW 3600-4000)

T-silane functionality

- 1:** ~0.15 mmol/g
- 2:** ~0.30 mmol/g
- 3:** ~0.55 mmol/g
- 4:** ~0.80 mmol/g
- 5:** ~1.00 mmol/g
- 6:** ~1.20 mmol/g
- 7:** ~1.50 mmol/g
- 8:** ~1.70 mmol/g



Crosslinking and Curing Acceleration

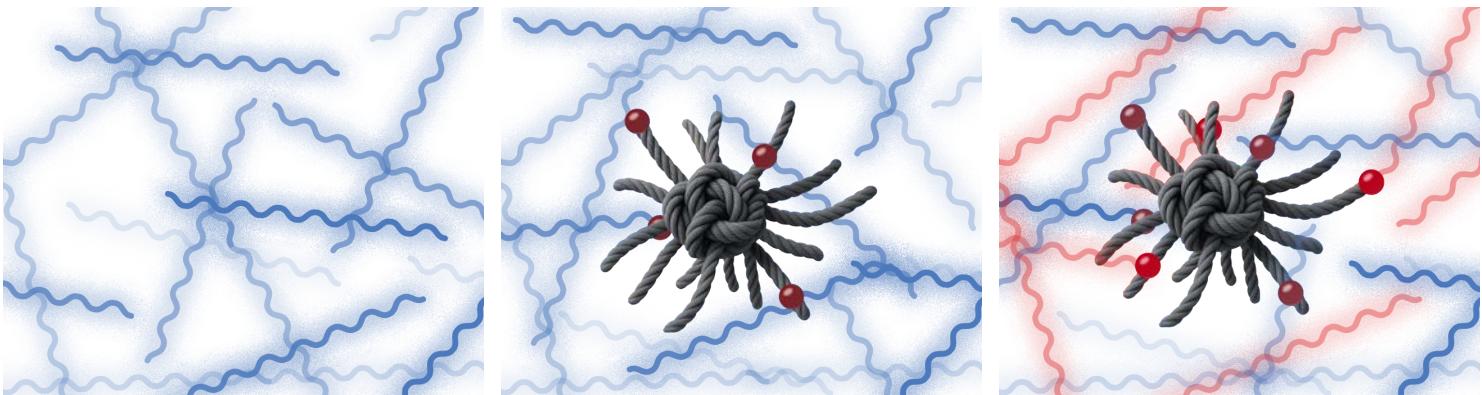
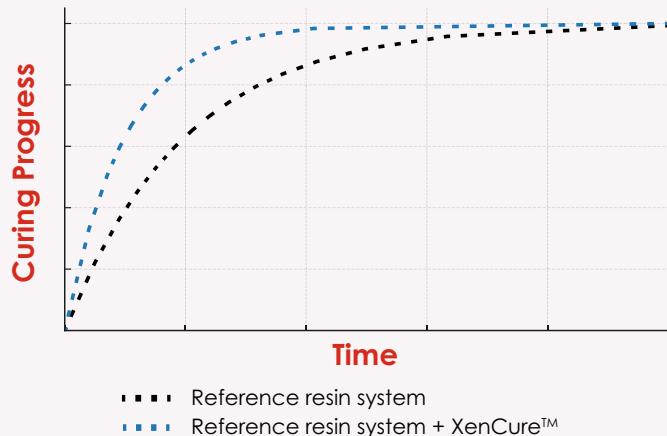
Q-T polysiloxanes are efficient crosslinkers and multiresin compatibilizers

INNOVATIVE CROSSLINKING SOLUTIONS

Monomeric silanes can take part in a polymerization reactions through their “” reactive groups. When alkoxysilane monomers are integrated into the polymer network, no noticeable change in curing characteristics is observed and the system becomes sensitive to moisture induced post-curing. For many applications, this may not be desirable.

The dendritic hyperbranched structures of XenCure™ and XenLink™ products **combine multiple “” reactive groups on a single macromolecule**, making them very efficient crosslinkers. By controlling the size of the ethyl silicate backbone (or “core”) and the loading of grafted reactive functional group, the functionality and thus the crosslinking characteristics of the material can be controlled over a wide range.

The crosslinking characteristics (**speed increase**) as a function of structural parameters when employing XenCure™ as a crosslinker is shown below for a single mode mechanism resin curing system.



MULTI-MODE CURING

For dual- or multi-mode curing, where the polymerization of a reactive polymer system comprises more than one type of polymerization chemistry, multifunctional XenCure™ and XenLink™ products offer the ability to bear two or more suitable “” and “” reactive groups (symbolized by bright red and dark red color). In such an example, the polysiloxane crosslinker is able to **interlink both types of polymer networks simultaneously**. Multimode curing is a cost-effective way to combine multiple standard resin components into a **single reactive resin or binder system** without having to opt for customized and costly specialty resins which feature two types of chemistries in one product. Our product portfolio offers a simple and universal toolkit to combine different reactive binder chemistries into many product formulations.

Molecular Level Control of Interfaces

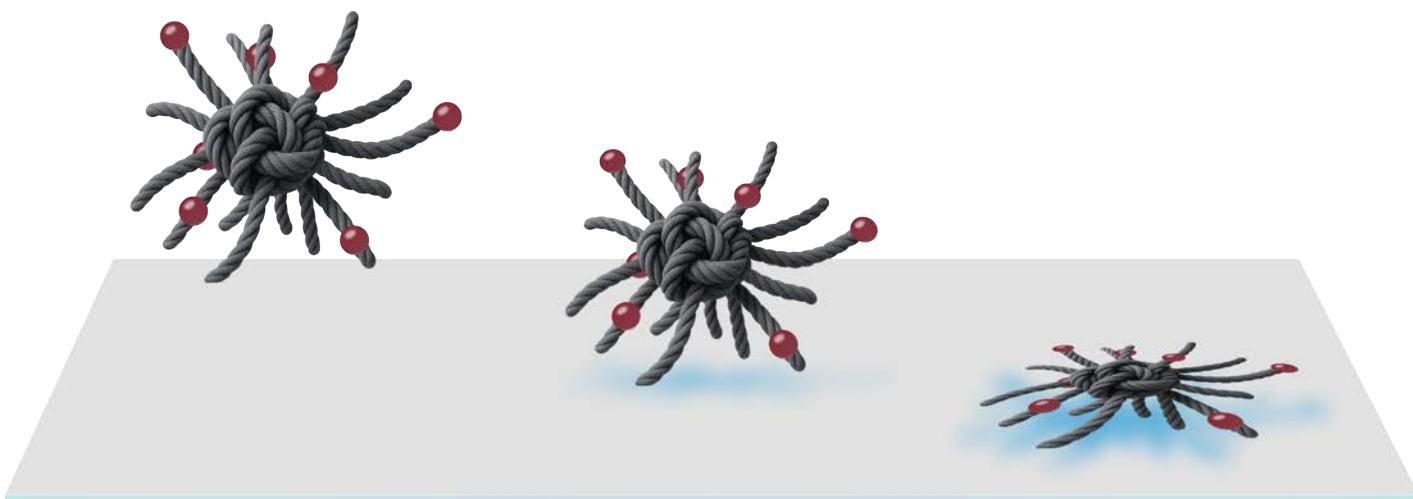
Q-T polysiloxanes are customizable adhesion promoters with next level performance

PROVIDING INTERFACE SOLUTIONS

Due to their unique structural nature and composition, our products excel in the following aspects:

- Compatibility with various surfaces achieved by tailoring functionality (e.g. multiunfunctional product options and tunable properties)
- Molecular level control of wetting
- Maximized adhesion / compatibility advantages
- Simple integration into formulations
- Processing benefits

Due to the high surface availability of hydrolysable alkoxy groups, Q-T polysiloxane materials demonstrate **excellent wetting properties** on many mineral surfaces. Simultaneously, the tunable functional group loading allows independent control of surface compatibility with polymers or with other materials through coordinating groups, enabling a wide range of material combinations. The type of chemical functionality as well as functional group loading and extent of modification of XenCure™ and XenLink™ products can all be individualized to meet your specific needs.



Siloxene Q-T molecules land on the mineral surface, then unfurl and bind through multiple hydrolysable alkoxy “arms” (red tips). This creates an ultrathin, highly wetting interphase (blue halo) that maximizes compatibility and locks the coating/adhesive in place for durable adhesion.

PROCESSING BENEFITS

XenCure™, XenLink™ and XenSlick™ are **compatible with commercial silane solutions** and therefore no additional process upgrades/changes are necessary when siloxene products are used as a replacement or as an additive. Furthermore, these products are **label-free** and do not come with hazards commonly associated with standard silanes such as flammability or skin irritation. Due to the oily nature of the products, they furthermore have a **lubricating effect** and can therefore improve processing aspects such as in compounding and extruding, while reducing energy consumption.

Eco-Benefits of Siloxene Materials

Q-T polysiloxanes are non-toxic and label-free performance chemicals

NON-HAZARDOUS BY NATURE

XenCure™, XenLink™, XenSlick™ and XenBlu™ materials are GHS label free products that **do not contain any of the following toxic/hazardous components:**

- Persistent bioaccumulative and toxic (PBT) components
- Very persistent and very bioaccumulative (vPvB) components
- Organotin
- Other organometallic constituents
- Endocrine disruptors
- Biocides
- Silicones (PDMS)
- Surfactants
- Carcinogens and mutagens

XenCure™, XenLink™, XenSlick™ and XenBlu™ products are **solvent free, non-flammable and transition metal free**. Given their low viscosity, there is no need for solvent-based formulations, which makes their use, storage and transportation simpler and safer. Q-T polysiloxane products can therefore **minimize ecological footprint** of many formulations, products and solutions. This combination of properties makes Q-T polysiloxanes a key enabler technology for replacement of regulated substances and for sustainable materials development.

HIGH PERFORMANCE BASED ON SAND AND ALCOHOL

When XenCure™, XenLink™ and XenSlick™ products come into **contact with water**, they undergo hydrolysis, forming functionalized **colloidal silica or glassy solids**. These products are known for their benign ecological properties and **do not cause pollution concerns**. The ethyl silicate carrier which makes up > 80% of typical Q-T polysiloxanes, forms silica and alcohol as a byproduct of the hydrolysis, effectively forming nothing other than sand and alcohol. In comparison with standard functional silanes the fraction of "T-type" organofunctional silane moieties is 4-6 times lower, which results in a **significantly reduced ecotoxicity potential**. Furthermore, due to their highly polymerized structure, there is significantly less alcohol released from our products during use compared to their standard monomeric analogues. To further reduce the eco-impact, products made from ethylsilicate derived from bio-sourced alcohol are available on demand.

Product Guide by Application: XenCure™

Product Line	A	2A	S	A1/A2/A9	V	G	U
Application							
Case	Coating additive	●	●	●	●	●	●
	Adhesion promoter	●	●	●	●	●	●
	Crosslinker	●	●	●	●	●	●
	Elastomer/rubber coupling agent	●	●	●	●	●	●
	Co-hardener	●	●	●	●	●	●
	Curing accelerator	●	●	●	●	●	●
	Surface modifier	●	●	●	●	●	●
Glass fiber / composites	Fiber sizing	●	●	○	●	●	●
	Finishing	●	●	●	●	●	●
	Resin co-Hardener	●	●	●	○	●	●
Sustainable materials & solutions	Hydrophobe	○	○	○	○	○	○
	Defoamer	○	○	○	○	○	○
	Emulsifier	○	○	○	○	○	○
	Dispersing agent	●	●	○	●	●	○
Polymer additive	Processing aid	●	●	●	●	●	●
	Crosslinker	●	●	●	●	●	●
	Filler coupling	●	●	●	●	●	●
	Reactive diluent	○	○	○	○	●	●

● very effective

○ effective

○ not relevant

Product Guide by Chemistry: XenCure™

Product Line	A	2A	S	A1/A2/A9	V	G	U
Compatible chemistry							
Thermosetting resin	Melamine	●	●	○	●	○	●
	Phenolic	●	●	●	●	●	●
	Epoxy	●	●	●	●	●	●
	Urethane	●	●	●	●	●	●
	Polyimide	●	●	○	●	●	●
	Polyester	○	○	○	●	●	●
	Furan	●	●	○	●	●	○
Thermoplastic resin	Polyethylene	●	●	●	●	●	●
	Polypropylene	●	●	●	●	●	●
	Polystyrene	●	●	●	●	●	●
	Acrylic	●	●	○	●	●	●
	PVC	●	●	●	●	●	●
	Polycarbonate	●	●	○	●	●	●
	Polyamide	●	●	○	●	●	●
	Urethane	●	●	●	●	●	●
	PBT-PET	●	●	○	●	●	●
	ABS	●	●	●	●	●	●
Elastomer, rubber	Polybutadiene rubber	○	○	●	○	○	○
	Polyisoprene rubber	○	○	●	○	○	○
	Sulfur cross-linked EPDM	●	●	●	●	●	●
	Peroxide cross-linked EPDM	●	●	●	●	●	●
	Styrene-butadiene rubber	○	○	●	○	●	●
	Nitrile rubber	●	●	●	●	●	●
	Epichlorohydrin rubber	○	○	●	○	●	●
	Neoprene rubber	●	●	●	●	●	●
	Butyl rubber	●	●	○	●	●	●
	Polysulfide	●	●	●	●	●	●
	Urethane rubber	●	●	●	●	●	●

● very effective

○ effective

○ not relevant

Product Guide by Application: XenSlick™

Product Line	M	P	iB	O	IO	R
Application						
Case	Coating additive	●	●	●	●	●
	Adhesion promoter	○	○	○	○	○
	Crosslinker	○	○	○	○	○
	Elastomer/rubber coupling agent	○	○	○	○	○
	Co-hardener	○	○	○	○	○
	Curing accelerator	○	○	○	○	○
	Surface modifier	●	●	●	●	●
Glass fiber / composites	Fiber sizing	●	●	●	●	●
	Finishing	○	○	○	○	○
	Co-Hardener	○	○	○	○	○
Sustainable materials & solutions	Hydrophobe	●	●	●	●	●
	Defoamer	●	●	●	●	●
	Emulsifier	●	●	●	●	●
	Dispersing agent	○	●	●	●	○
Polymer additive	Processing aid	●	●	●	●	●
	Crosslinker	○	○	○	○	○
	Filler coupling	○	○	○	○	○
	Reactive diluent	○	○	○	○	○

● very effective

○ effective

○ not relevant

Product Specifications

XenCure™ Family

XenCure™ A

Properties	A21	A23	A33	A35	A45	A48
Functional group loading: amine [mmol/g]	0.15	0.54	0.57	0.98	1.03	1.73
Density [g/cm³]	1.054	1.065	1.084	1.115	1.075	1.140
SiO₂ content [%]	40.0	41.4	43.1	40.9	42.1	40.0
Refractive index	1.406	1.408	1.408	1.411	1.412	1.414
Gardner color	< 3	< 3	< 3	< 3	< 3	< 3

XenCure™ 2A

Properties	2A21	2A23	2A33	2A35	2A45	2A48
Functional group loading: amine [mmol/g]	0.14	0.53	0.55	0.94	0.98	1.61
Density [g/cm³]	1.031	1.017	1.031	1.120	1.070	1.130
SiO₂ content [%]	37.9	40.0	40.9	38.1	39.1	36.8
Refractive index	1.408	1.411	1.412	1.414	1.414	1.415
Gardner color	< 3	< 3	< 3	< 3	< 3	< 3

XenCure™ Family

XenCure™ A1/A2/A9

Properties	A121 A221 A921	A123 A223 A923	A133 A233 A933	A135 A235 A935	A145 A245 A945	A148 A248 A948
Functional group loading: amine [mmol/g]	~ 0.14	~ 0.52	~ 0.54	~ 0.91	~ 0.95	~ 1.53
Density [g/cm ³]	1.063	1.074	1.068	1.082	1.075	1.081
SiO ₂ content [%]	~ 37.7	~ 39.3	~ 41.2	~ 38.3	~ 38.8	~ 36.1
Refractive index	1.408	1.409	1.411	1.412	1.413	1.415
Gardner color	< 6	< 6	< 6	< 6	< 6	< 6

XenCure™ G

Properties	G21	G23	G33	G35	G45	G48
Functional group loading: glycidoxyl [mmol/g]	0.14	0.52	0.55	0.93	0.98	1.58
Density [g/cm ³]	1.063	1.074	1.068	1.082	1.075	1.081
SiO ₂ content [%]	37.9	39.5	41.5	38.4	39.0	36.3
Refractive index	1.408	1.409	1.411	1.412	1.413	1.415
Gardner color	< 4	< 4	< 4	< 4	< 4	< 4



XenCure™ Family

XenCure™ U

Properties	U21	U23	U33	U35	S45	U48
Functional group loading: methacrylate [mmol/g]	0.14	0.52	0.55	0.92	0.96	1.55
Density [g/cm ³]	1.068	1.073	1.059	1.065	1.069	1.073
SiO ₂ content [%]	38.5	39.5	42.0	38.7	39.7	38.5
Refractive index	1.408	1.408	1.410	1.413	1.415	1.417
Gardner color	< 3	< 3	< 3	< 3	< 3	< 3

XenCure™ V

Properties	V21	V23	V33	V35	V45	V48
Functional group loading: vinyl [mmol/g]	0.15	0.55	0.58	1.01	1.06	1.83
Density [g/cm ³]	1.032	1.043	1.054	1.067	1.075	1.086
SiO ₂ content [%]	41.4	42.1	44.6	43.1	44.7	41.4
Refractive index	1.403	1.405	1.407	1.410	1.412	1.415
Gardner color	< 3	< 3	< 3	< 3	< 3	< 3

XenCure™ S

Properties	S21	S23	S33	S35	S45	S48
Functional group loading: mercapto [mmol/g]	0.15	0.53	0.56	0.96	1.01	1.68
Density [g/cm ³]	1.050	1.078	1.093	1.109	1.121	1.127
SiO ₂ content [%]	39.5	40.9	42.5	39.9	41.1	39.5
Refractive index	1.407	1.408	1.411	1.415	1.415	1.416
Gardner color	< 3	< 3	< 3	< 3	< 3	< 3

XenSlick™ Family

XenSlick™ M

Properties	M21	M23	M33	M35	M45	M48
Functional group loading: methyl [mmol/g]	0.15	0.54	0.57	0.98	1.03	1.74
Density [g/cm ³]	1.015	1.028	1.039	1.006	1.043	1.056
SiO ₂ content [%]	43.0	42.6	44.3	43.5	45.6	43.0
Refractive index	1.402	1.403	1.405	1.402	1.405	1.407
Gardner color	< 2	< 2	< 2	< 2	< 2	< 2

XenSlick™ P

Properties	P21	P23	P33	P35	P45	P48
Functional group loading: propyl [mmol/g]	0.15	0.53	0.56	0.95	1.00	1.66
Density [g/cm ³]	1.005	1.063	1.080	1.107	1.0439	0.980
SiO ₂ content [%]	40.5	41.3	42.3	40.9	42.5	40.5
Refractive index	1.406	1.406	1.404	1.404	1.408	1.412
Gardner color	< 2	< 2	< 2	< 2	< 2	< 2

XenSlick™ iB

Properties	iB21	iB23	iB33	iB35	iB45	iB48
Functional group loading: isobutyl [mmol/g]	0.14	0.53	0.56	0.94	0.99	1.62
Density [g/cm ³]	1.055	1.040	1.032	0.998	1.050	1.062
SiO ₂ content [%]	38.5	40.2	41.2	39.1	39.7	38.5
Refractive index	1.403	1.403	1.404	1.405	1.407	1.408
Gardner color	< 2	< 2	< 2	< 2	< 2	< 2

XenSlick™ Family

XenSlick™ O

Properties	O21	O23	O33	O35	O45	O48
Functional group loading: octyl [mmol/g]	0.14	0.51	0.54	0.89	0.93	1.48
Density [g/cm³]	1.027	1.011	1.004	0.972	1.013	1.024
SiO₂ content [%]	37.0	39.1	40.0	37.4	38.2	37.0
Refractive index	1.408	1.408	1.410	1.411	1.410	1.412
Gardner color	< 2	< 2	< 2	< 2	< 2	< 2

XenSlick™ iO

Properties	iO21	iO23	iO33	iO35	iO45	iO48
Functional group loading: isoctyl [mmol/g]	0.14	0.53	0.54	0.89	0.93	1.48
Density [g/cm³]	1.054	1.039	1.027	0.972	1.031	1.061
SiO₂ content [%]	37.0	39.1	40.0	37.4	38.2	37.0
Refractive index	1.408	1.408	1.409	1.410	1.410	1.412
Gardner color	< 2	< 2	< 2	< 2	< 2	< 2

XenSlick™ R

Properties	R21	R23	R33	R35	R45	R48
Functional group loading: phenyl [mmol/g]	0.15	0.53	0.56	0.96	1.01	1.68
Density [g/cm³]	1.062	1.048	1.040	1.035	1.082	1.102
SiO₂ content [%]	39.0	40.6	41.7	39.5	40.7	39.0
Refractive index	1.413	1.417	1.419	1.424	1.424	1.425
Gardner color	< 2	< 2	< 2	< 2	< 2	< 2

Multifunctional Product Examples

XenCure™ VS

Properties	VS231	VS213	VS335	VS353	VS458	VS485
Functional group loading: vinyl [mmol/g]	0.53	0.15	0.47	0.88	0.75	1.55
Functional group loading: mercapto [mmol/g]	0.13	0.56	0.88	0.46	1.50	0.78
Density [g/cm³]	1.022	1.010	1.011	1.015	1.013	1.021
SiO₂ content [%]	39.9	40.0	41.0	41.0	39.9	40.0
Refractive index	1.409	1.408	1.410	1.410	1.410	1.412
Gardner color	< 3	< 3	< 3	< 3	< 3	< 3

XenSlick™ MR

Properties	MR231	MR213	MR353	MR35	MR458	MR485
Functional group loading: methyl [mmol/g]	0.54	0.13	0.48	0.92	0.75	1.58
Functional group loading: phenyl [mmol/g]	0.13	0.52	0.89	0.49	1.51	0.79
Density [g/cm³]	1.028	1.026	1.020	1.001	1.011	1.021
SiO₂ content [%]	38.4	38.4	39.5	39.5	36.5	36.5
Refractive index	1.409	1.408	1.409	1.411	1.410	1.411
Gardner color	< 3	< 3	< 3	< 3	< 3	< 3

XenLink™ AO

Properties	AO231	AO213	AO335	AO353	AO458	AO485
Functional group loading: amino [mmol/g]	0.52	0.13	0.44	0.85	0.65	1.40
Functional group loading: octyl [mmol/g]	0.13	0.50	0.82	0.46	1.31	0.70
Density [g/cm³]	1.052	1.038	1.040	1.035	1.082	1.022
SiO₂ content [%]	35.8	35.8	36.6	36.0	35.2	35.2
Refractive index	1.413	1.411	1.410	1.414	1.414	1.415
Gardner color	< 3	< 3	< 3	< 3	< 3	< 3

XenBlu™ Family

Properties	CDC100	CD120	EDC200	ED200
SiO ₂ content [%]	41	4	37	9
Particle size [nm]	-	30 - 80	-	30 - 80
Density [g/cm ³]	1.1	1.0	1.1	1.0
Appearance	transparent bright yellow	translucent blue hue	transparent bright yellow	translucent blue hue
Cationic / anionic nature	cationic	cationic	cationic	cationic
pH	-	~ 4	-	~ 4

Notes



Contact

ARA KİMYA LTD.

ARSLAN İŞ MERKEZİ NO:1
AKYAZI CAD. KAYIŞDAĞI ATAŞEHİR İSTANBUL TÜRKİYE

Ph#: +90 532 289 80 90

Ph#: +90 533 725 00 45

info@arakem.com

<https://arakimya.com.tr>