

# Solutions for Adhesives & Sealants



## Evonik

We are a global player with presence in local markets; proven, reliable product quality and supply security – on time and on target.

## Face-to-Face Performance

- We have broad chemical platforms including nanosilicas, silicone specialties and organic surfactants including acetylenic chemistry.
- We are experts for interfacial phenomena, at the surface and within the matrix.
- We have specialized test facilities and laboratories in North America, Europe and Asia.
- You can count on our specialists for process knowledge, physico-chemical expertise, scientific studies and regulatory knowledge.
- Long-term relationships built on trust are the basis of our work.

## Applications

Our extensive portfolio covers a broad variety of applications addressing end-markets like

- Paper & Packaging
- Construction
- Transportation (Aerospace, Automotive, Shipbuilding, ...)
- Assembly
- Electronics
- Composites
- Medical devices

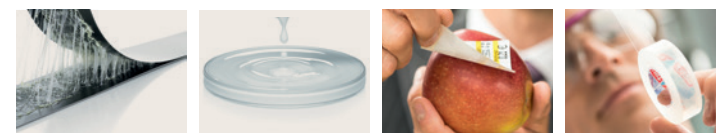
## Hybrid Adhesives & Sealants

Our silane-modified polymers are high quality binders for your hybrid adhesives & sealants. They allow to develop products addressing various applications with a wide range of mechanical properties without hazard labelling. We offer silane-terminated binder systems (methanol-release) and silane-modified polymers with lateral cross-linking groups (ethanol-release).



## Water-based Adhesives

Our portfolio includes wetting agents, antifoams, and emulsifiers for production of dispersions as well as additives to improve performance of adhesive formulations. The additives help to reduce foaming, improve wetting, modify rheology behavior or improve dispersing of fillers. Performance of adhesives for packaging, laminating, PSA or construction applications can be improved easily.



## Binders & Additives

The left side of the overview shows our portfolio for reactive adhesive & sealant systems.

### PROPERTIES BY DESIGN THROUGH INNOVATIVE POLYMERS:

We offer silane-modified polymers with terminal and lateral cross-linking options.

Our raw materials for silicones enable you to design properties of formulations (e.g. application behavior) and to improve properties of cured silicone adhesives & sealants.

The right side of the overview shows our additive portfolio for water-based & solvent-based systems.

The additives help you to optimize production processes and to improve performance of adhesives & sealants.

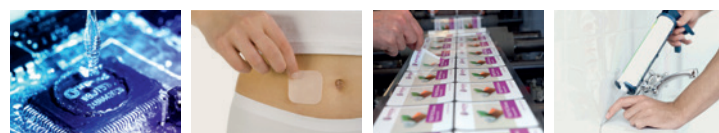
### WITH OUR RANGE OF PRODUCTS, THE FOLLOWING ADVANTAGES CAN BE ACHIEVED:

- Reduction/elimination of foam or bubbles
- Eliminated microfoam while maintaining good compatibility
- Improved dynamic wetting behavior on difficult surfaces
- Facilitated higher application speed such as curtain coating applications
- Higher toughness and improved mechanical properties
- Viscosity and CLTE modification using reactive resin modifiers
- Improved dispersing of fillers
- Longer lifetimes

**just to name a few.**

### Binders & additives for adhesive & sealant applications

TEGOPAC® Polymer ST	Silane-modified polymers	<b>Reactive Adhesives &amp; Sealants</b>	<b>Water-based Adhesives &amp; Sealants</b>	Defoamers	TEGO® Antifoam
Modifier OH Polymer OH Crosslinker	Condensation curing silicones			Dispersants	TEGOMER® ZetaSpers®
Polymer VS Catalyst Crosslinker VQM	Addition curing silicones			Wetting agents	SURFYNOL® TEGOPREN®
ALBIDUR® ALBIFLEX® ALBIPOX®	Reactive resin modifiers			Thickeners	TEGO® Rheo
TEGOMER®	Reactive siloxanes			Emulsifiers	TEGO® SHO TEGO® SMO REWOPOL®
NANOPOX® NANOCRYL®	Nanosilica concentrate			Dispersants	TEGOMER® TEGOPREN®
TEGOMER® TEGOPREN® TEGO® Antifoam	Dispersants/Deaerators			Deaerators	TEGO® Antifoam
			<b>Solvent-based Adhesives &amp; Sealants</b>		



## Silicone Adhesives & Sealants

Our portfolio includes raw materials for condensation and addition curing silicones to address construction, electronic or medical applications. Our UV curing silicones help to produce tapes and labels with excellent release properties.



## Reactive Adhesives & Sealants

Our portfolio of additives for reactive adhesives & sealants (epoxides, PUs, acrylics) offers many possibilities to optimize performance of formulations. Improvement of fatigue properties, toughening of epoxides, deaeration of formulations or better dispersing of filler materials is possible.

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