

Solution Case Study

Formulate elastic adhesives and sealants with broad adhesion spectrum and reduced yellowing thanks to Dynasytan® SIVO 203

Additive

Organofunctional silanes to use in Silane modified polyurethane/polyether (SMP), MS Polymer, RTV-1/RTV-2 oxime- and alkoxy-silicones

Markets

Construction, transportation, do-it-yourself, industrial assembly

Key benefits

- Excellent adhesion to many substrates
- Reduced yellowing of formulated products
- High elastic end products possible

The challenge

High elastic adhesives and sealants for visible interior and exterior bondings are widely used in the market. Consequently, to limit the discoloration of visible adhesive and sealant joints is crucial for the quality of such products.

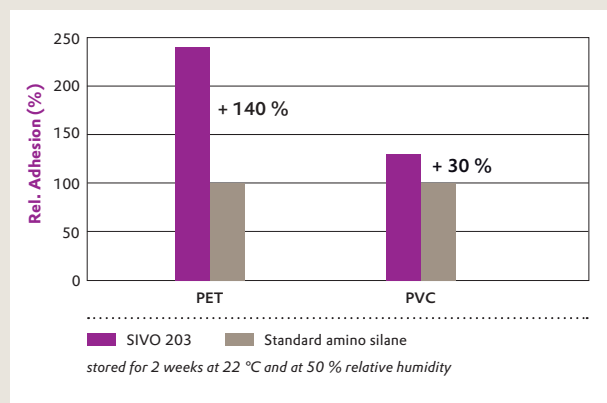
The solution

With Dynasytan® SIVO 203, formulators can develop adhesives and sealants with excellent adhesion performance, high bonding strength, high elasticity and reduced yellowing.



Enhanced adhesion performance: up to 140 % adhesion performance increased on PET substrate

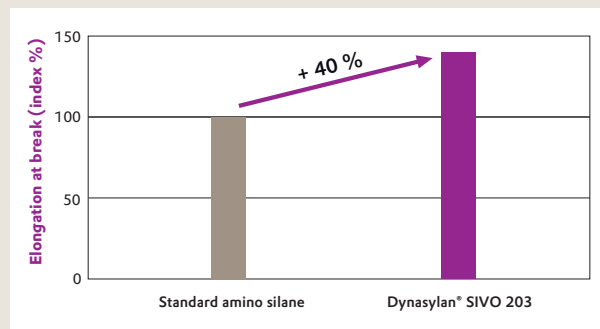
With Dynasytan® SIVO 203, formulated in SMP-products or RTV-silicones, you can achieve excellent adhesion performance on a wide variety of substrates, especially adhesion on critical substrates like PET or PVC can be significantly improved.



Adhesion performance of oxime silicone sealant on various substrates

Improved elasticity: increase of 40 % elongation at break of a STPU sealant

Dynasytan® SIVO 203 enables to formulate adhesives and sealants with enhanced elongation at break and overall elasticity of adhesives and sealants.



Elongation at break of a STPU sealant

Additional advantages provided by Dynasytan® SIVO 203 are:

- Reduced yellowing of white or transparent sealants compared to products with traditional aminosilanes
- High tensile strength in combination with good elasticity possible, balancing of important mechanical properties

With Dynasytan® SIVO 203, you can formulate elastic adhesives and sealants with improved adhesion performance compared to standard aminosilanes.

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EVONIK RESOURCE EFFICIENCY GMBH

Business Line Silanes
 Rodenbacher Chaussee 4
 63457 Hanau
 Germany
dynasytan@evonik.com
www.dynasytan.com

