

Solution Case Study

Formulate Elastic Adhesives and Sealants with Broad Adhesion Spectrum and Reduced Yellowing thanks to Dynasylan® 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.

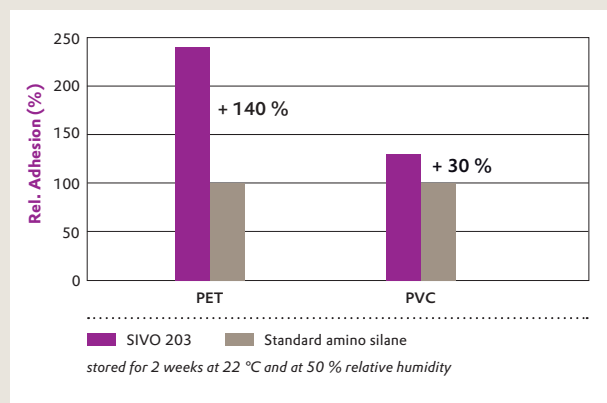
The solution

With Dynasylan® 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

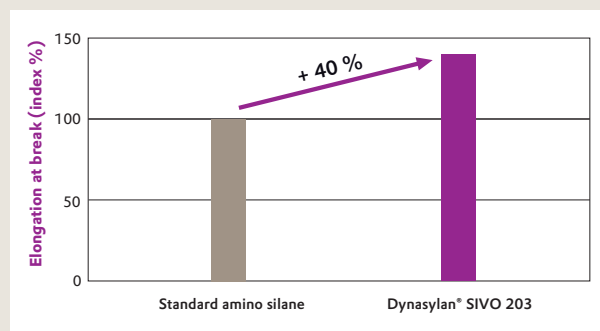
With Dynasylan® SIVO 203, formulated in SMP-products or RTV-silicones, you can achieve excellent adhesion performance on a wide variety of substrates, especially adhesion on critical substrates like PET or PVC can be significantly improved.



Adhesion performance of oxime silicone sealant on various substrates

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

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

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

Dynasylan® is a registered trademark of Evonik Industries AG or one of its subsidiaries.

Evonik Operations GmbH
Business Line Silanes
Rodenbacher Chaussee 4
63457 Hanau
Germany
dynasylan@evonik.com
www.dynasylan.com

