

Abstract ECS 2023 Product Presentation

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Novel highly reactive and environmental friendly adhesion promoter and curing agent for Adhesives & Sealants and Coatings

Organofunctional silanes are often used as adhesion promoter, crosslinker and co-catalyst in adhesive, sealant and coating formulations. Discover how Evonik's novel silane oligomer brings crucial benefits as an additive in adhesive, sealant and coating formulations. The environmental friendly silane oligomer based on a new technology supports low VOC contribution. In addition the new silane oligomer can help to avoid labelling of monomeric silanes. Evonik's highly reactive ethoxy-silane oligomer is an excellent replacement for methoxy-silanes. There is no methanol release coming from this silane. Due to the high reactivity of the oligomer purely ethoxy based formulations are possible.

The high reactivity enables faster curing of adhesives, sealants and coatings compared to current market standards. Curing Temperatures can be reduced for these formulations to achieve an improved energy efficiency within the industrial process.

In addition, the new silane oligomer leads to high strength and good elasticity of the cured systems. Discover Evonik's novel silane oligomer solution with excellent adhesion performance, improved mechanical properties and high reactivity in condensation curing adhesives and sealants like SMP and Silicones.