Dynasylan® 1189 –

Secondary aminofunctional methoxy-silane – „highly elastic“ adhesion promoter







Dynasylan® 1189 can be used as

- PU-endcapping with fast reaction of free NCO-groups
- Colorless and low-viscous urethane prepolymers achievable
- Gains additional benefit as a “high- elastic” co-adhesion promoter

Dynasylan® 1189 – At a Glance

USP for Adhesives & Sealants Applications

- Dynasylan® 1189 as a high-efficient endcapper for polyurethanes (chemical modification of NCO-modified prepolymers), e.g. improving adhesion, scratch/scrub resistance and mechanical properties
- As a high-flexible adhesion promoter synergist in SMP formulations to increase elasticity of end products significantly
- It is not recommended to use it in water-based technologies, and amine-sensitive technologies such as 1K PU or 1K Epoxy

USP for Coatings, Filler Treatment, Composites & Foundry Applications

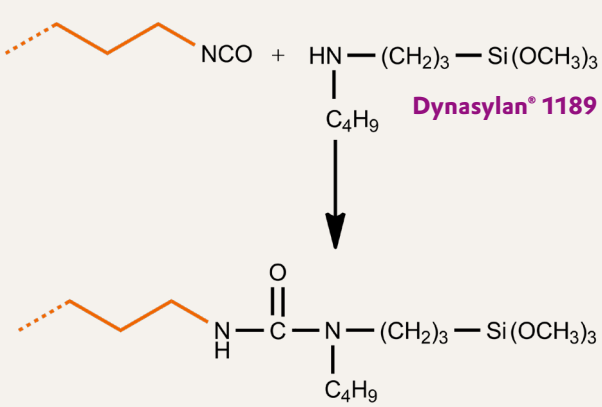
- Silane modified foundry binder based on phenol, furan or melamine (no-bake or cold box process)
- Very effective coupling agent – pretreatment of fillers (kaolin, wollastonite) and pigments used in mineral-filled polymers (e.g. PP-Copo, EVA PE, PA compounds) for improved dispersion and increase of mechanical properties
- As silane in seizing formulation or finishing for glass fibers (treated fibers have similar effects like pretreated fillers described above)
- Primer and adhesion promotor in paints and coatings

Dynasylan 1189® – Silane modification of functional polymers

Dynasylan® 1189 – End-capping of silane modified PU-polymers

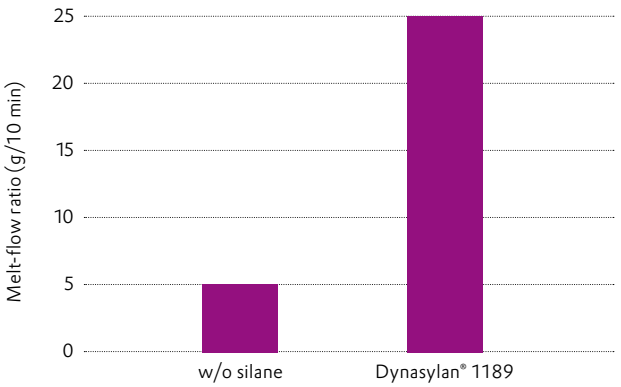
Silane modification of functional polymers can improve the following properties:

- scratch resistance
- scrub resistance
- thermal stability
- adhesion
- mechanical properties



Dynasylan® 1189 – Significantly improved processing viscosity of highly filled compounds

Reduced agglomeration is a consequence of improved dispersion of the inorganic in the organic matrix. Also, the Melt flow ratio of the MDH/PP/PP-MAH compound with Dynasylan® 1189 is significantly increased.



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