

Adhesive systems based on Polymer ST

- High Tensile Strength: 10 N/mm² -

Polymer ST is a series of base polymers for the production of neutral curing sealants and adhesives. These polymers consist of polyurethane prepolymers endcapped with trimethoxy silanes. Due to the reactive groups at the chain ends moisture curing starts on adding a catalyst even without adding further crosslinking agents.

The below table shows a starting formulation for a 1-part sealant/adhesive. Detailed advice and technical guidance on adapting this formulation to a particular application and on its processing is available from your technical contact at Evonik Hanse GmbH.

Ingredient	Supplier	weight-%
Polymer ST 81	Evonik Hanse GmbH	32.9
Tegomer DA 646	Evonik	1
Dynasylan® 6490	Evonik	3
Dynasylan® AMMO	Evonik	3
Dynasylan® 1146	Evonik	3
Quartz powder, surface treated	e.g. Quarzwerke Frechen	50.7
Aerosil® R 208	e.g. Evonik	3.5
Antioxidant (e.g. Irganox), 10 % in Shellsol	e.g. BASF	2.5
UV stabiliser (e.g. Tinuvin)	e.g. BASF	0.25
Catalyst TD 18	Evonik Hanse GmbH	0.15
Total		100