Neuburg Siliceous Earth
2K-epoxy-structural-adhesive
Toughened with epoxy-silicone block copolymer

Objective

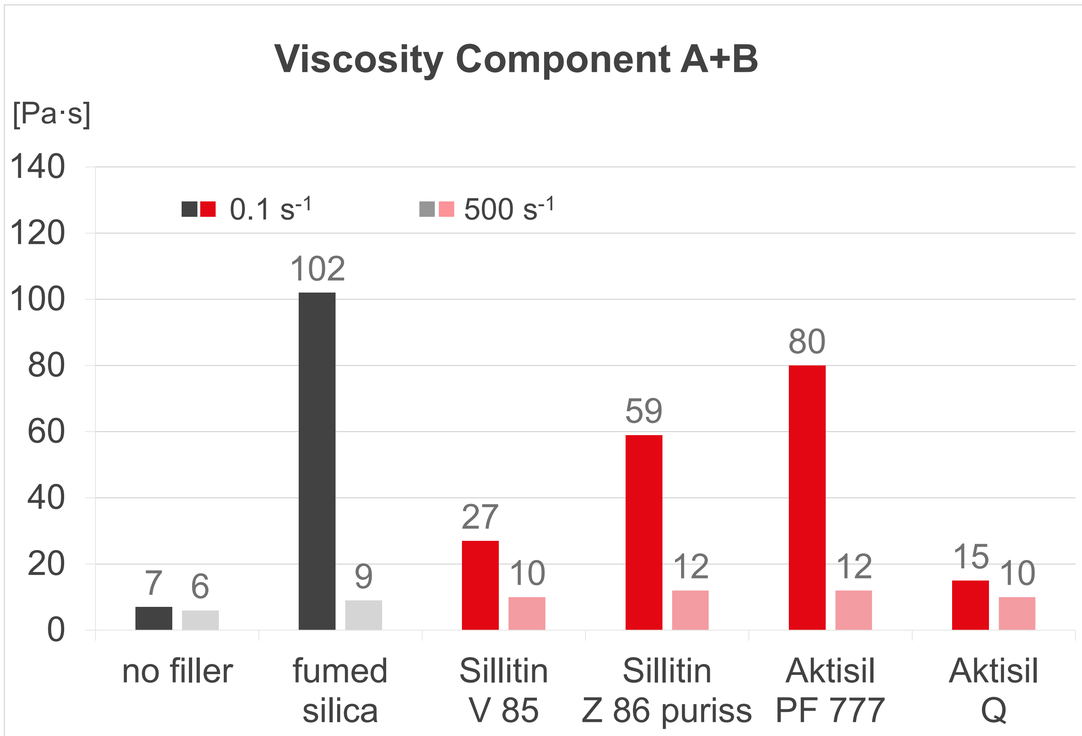
Improving adhesive strength

Formulation basics

	Material	Description	A	B	C
A	Epikote Resin 828LVEL	Epoxy-resin based on bisphenol A	80	80	20
	Albiflex 297	Toughener: epoxy-silicone block-copolymer	20	20	20
	Dynasylan 9116	Adhesion promoter: alkyl silane	3	3	3
	Fumed silica	Filler	---	5	---
	Neuburg Siliceous Earth	**Filler**	**---**	**---**	**50**
B	Ancamine 2719	Hardener: aliphatic amine (mannich base)	34.37	34.37	34.37
	Total parts by weight		137.37	142.37	187.37

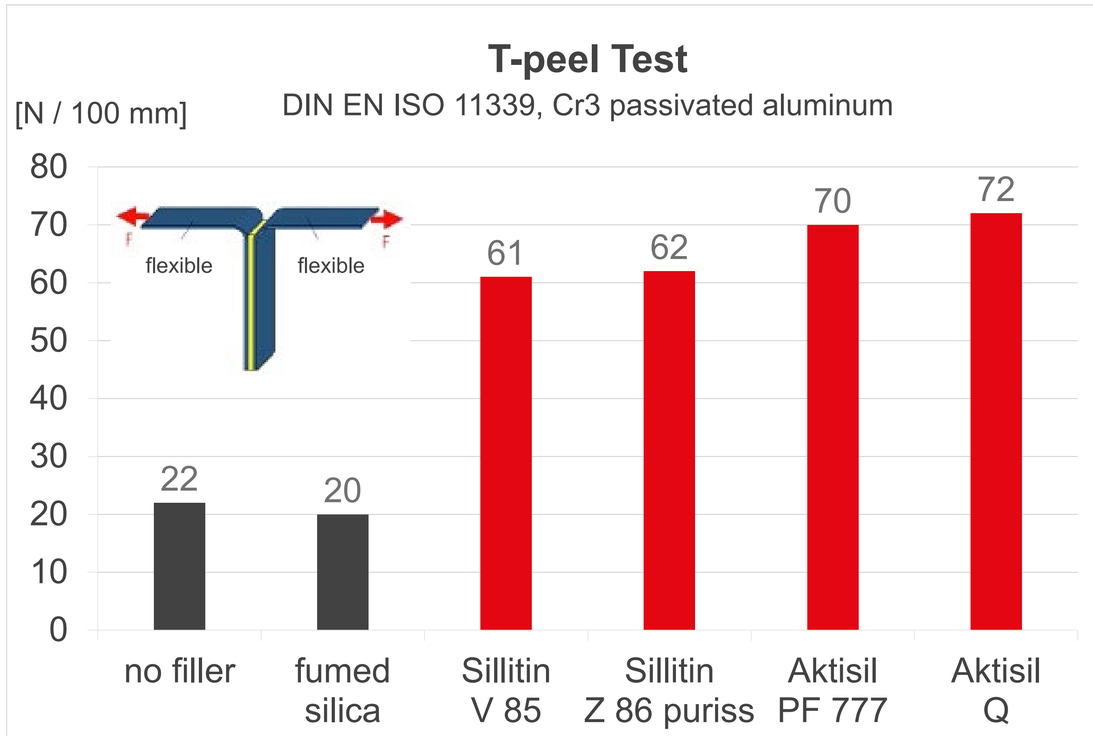
Results

Viscosity Component A+B



T-peel Test

DIN EN ISO 11339, Cr3 passivated aluminum



Summary & Recommendation

Product specific benefits with **NSE** vs. unfilled formulation:

	Fumed silica	Sillitin V 85	Sillitin Z 86 puriss	Aktisil PF 777	Aktisil Q
	↑↑	↑↑	↑↑	↑↑	0/↑
Lap shear strength	0	0 / +	0	0 / +	0
Peel resistance	0	++	++	++	++
Cost aspect	---	+++	+++	++	++
Note		standard product	easy to disperse	rheologically active	low viscosity