# Neuburg Siliceous Earth
# 2K-Epoxy-Structural-Adhesive
## Toughened with reactive liquid rubber (ATBN)

## Objective

Improving adhesive strength

## Formulation basics

| | Material | Description | A | B |
|---|---|---|---|---|
| **A** | Epikote Resin 320 | Epoxy-resin based on bisphenol A/F | 100 | 100 |
| | **Neuburg Siliceous Earth** | **Filler** | **---** | **50** |
| | | | | |
| **B** | Epikure Curing Agent 05903 | Hardener: mannich base | 34 | 34 |
| | Hypro 1300x16 ATBN | Toughener: reactive liquid rubber | 8.5 | 8.5 |
| | Total parts by weight | | 142.5 | 192.5 |

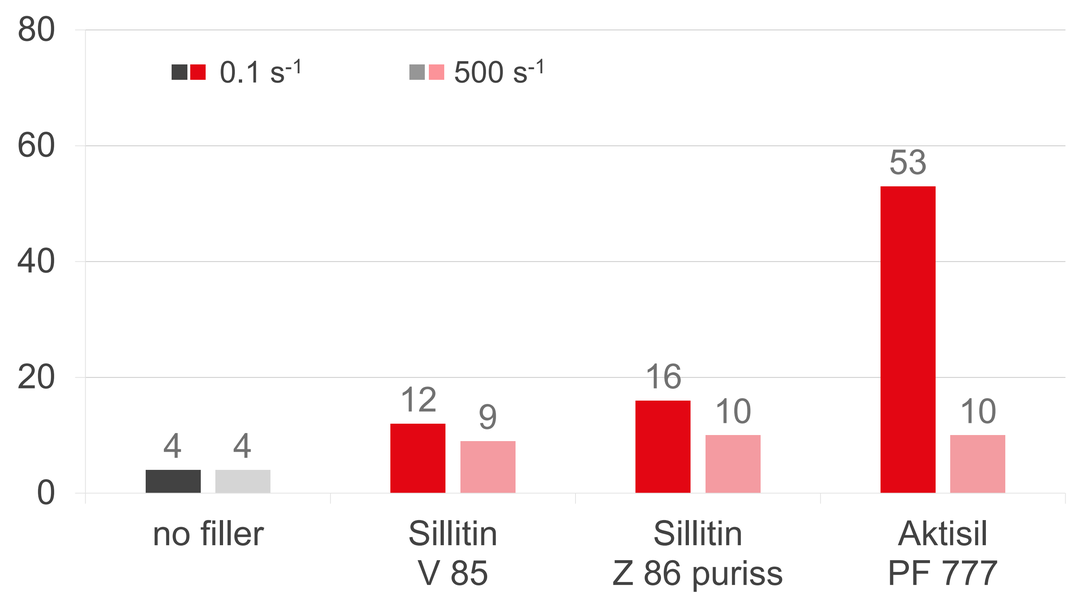
Sillitin V 85

Sillitin Z 86 puriss

Aktisil PF 777

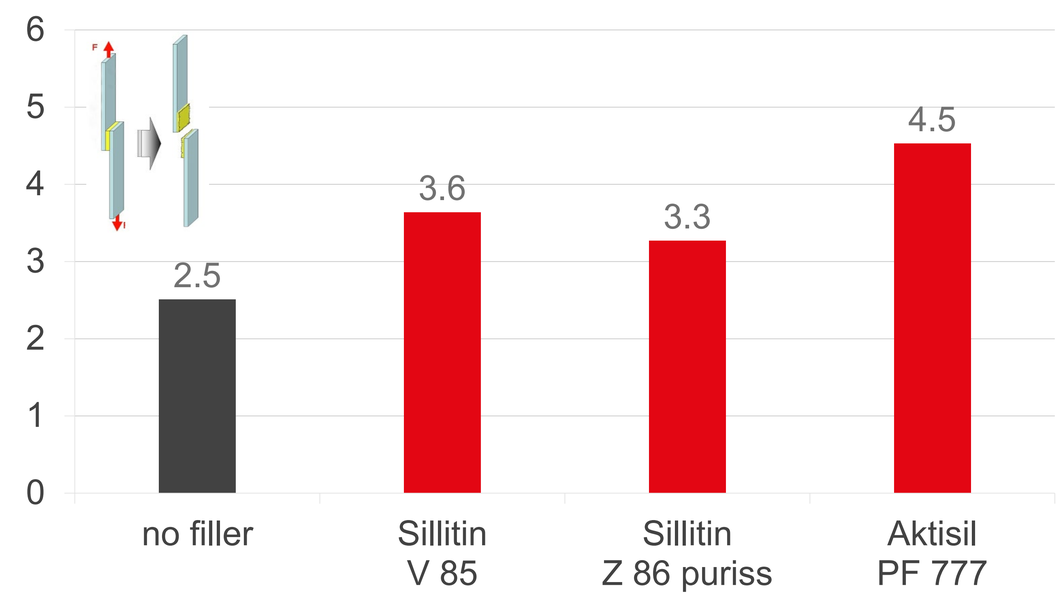
# Results

### Viscosity Component A+B




### Lap Shear Strength

DIN EN 1465, Cr3 passivated aluminum




# Summary & Recommendation

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

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