

**Schill+Seilacher**

**Any Questions?**

Our service team will be pleased to answer any questions and to assist you with advice and information at all times. We can also advise you of the contact data of our local offices and agencies. Data sheets and samples of our products are available upon request.

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**PERMANENCE  
PROTECTION & CARE  
WATER REPELLENCE  
COMPOSITES  
COATINGS**

**struksilon**



**EPOXY  
SILICONES  
ACRYLIC  
SILICONES**



SOLUTIONS | TAILORMADE | WORLDWIDE

## EPOXY AND ALKYL MODIFIED SILICONE FLUID

STRUKSILON 8411 is a low viscous, solvent-free silicone polymer functionalized by epoxy and alkyl groups. It combines the properties of waxes and silicones in one molecule.

### Struksilon 8411

**Appearance:** clear, yellow to brownish liquid

**Viscosity at 25 °C:** 70 mm<sup>2</sup>/s

**Density at 25 °C:** 995 kg/m<sup>3</sup>

**Soluble in:** alcohols, esters, aromatic, aliphatic and chlorinated hydrocarbons

- Epoxy modified silicone
- Reactive towards leather, paper, wooden surfaces
- Prepolymer for subsequent reactions

## APPLICATION

STRUKSILON 8411 can be applied for the preparation of textile and leather auxiliaries. The combination of wax and silicone properties imparts an improved touch as well as hydrophobicity and water repellency. The epoxy groups enable a reactive fixation of the silicone polymer onto the substrate. Vapour transmission characteristics will not be impaired by the treatment with STRUKSILON 8411.

By applying STRUKSILON 8411 the properties of polymer batches, e.g. epoxy resins can be altered. The incorporation of STRUKSILON 8411 into the polymer matrix can provoke an intrinsic and permanent release effect.

## ACRYLIC AND ALKYL MODIFIED SILICONE FLUID

STRUKSILON 8412 is a multi-functional organo-silicone based product for application in peroxide and UV-curable matrices.

### Struksilon 8412

**Appearance:** orange to brownish medium viscous liquid

**Viscosity at 25 °C:** 900 mPa.s

**Density at 25 °C:** 1017 kg/m<sup>3</sup>

**Dosage:** 1– 4 phr.

- Acrylic modified silicone
- Self-curing by radiation or peroxides
- Additive for UV-curable polymer matrices

## APPLICATION

STRUKSILON 8412 is a multi-functional processing aid for the use in peroxide or UV-curable polymers like E(P)DM or acrylic based varnishes, respectively.

STRUKSILON 8412 offers certain benefits in terms of decreased processing viscosity or improved release properties of the polymer matrix from molds. During the crosslinking process STRUKSILON 8412 gets incorporated into the polymer network. Thus a diffusion of that additive toward the surface is inhibited. Furthermore, the crosslinking density can be increased and as a consequence the physical properties, e.g. tensile strength, are improved.

