

Jowat® 2K SE polymers “The all-rounders”



- Very wide range of adhesion**
- High-strength and permanently elastic joints**
- Applied as bead or on full surface**
- Self-curing adhesive system**
- No shrinkage, bubble-free**
- Free of isocyanates, solvents and silicones**



High-performance adhesives for (almost) all purposes

Jowat® SE polymers are two-component adhesive systems with outstanding adhesion properties, which combine the benefits of high-strength epoxy resins and elastic MS polymers.

The full strength of these adhesives is demonstrated especially in gluing applications with surfaces that are difficult to bond. The elastic joint allows a tolerance compensation between parts with high power transmission at the same time. Jowat® SE polymers are free of isocyanates, solvents, plasticisers and silicones.

Jowat® SE polymers facilitate non-aging bondlines with a permanent heat resistance up to 90 °C. In addition, the adhesives can also withstand short-term exposure to higher temperatures, for instance in heat curing processes of powder coatings. After complete curing, the adhesive can be painted. The products are available in cartridges for manual application as well as in large containers for industrial processes with 2-component dosing and mixing units.

The strength and outstanding adhesion of Jowat® SE polymers makes them reliable and extremely versatile solutions for manual and industrial assembly processes.



INFO: 2K SE polymers

This unique hybrid system combines the benefits of elastic silane-terminated polymers (MS polymers) with the high strength of epoxy resins. Bondlines with these chemically-curing 2K systems harden evenly and bubble-free. The crosslinking reaction happens independent of moisture and ambient conditions without limits to layer thickness. The adhesives are processed within the pot life, and a deviation of up to 15 % from the ideal mixing ratio does not have any negative impact on the bonding properties. 2K SE polymers are characterised by excellent adhesion to metal, plastics, wood, concrete and mineral substrates, have joint-filling properties, and are not foaming. This makes them ideal assembly adhesives with a wide variety of applications. An integrated adhesion promoter makes the pre-treatment / primer coating of substrates obsolete in many cases. In addition, 2K SE polymers are free of isocyanates, solvents, plasticisers and silicones.

Information



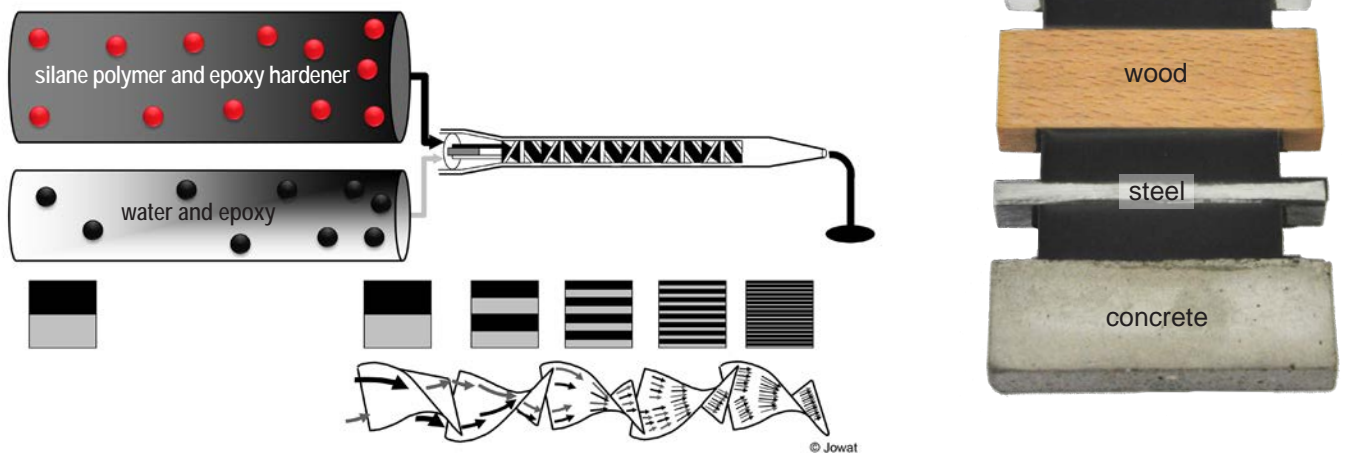
Application

For elastic bonding as well as for sealing seams and as casting compound. Good adhesion to plastics, metals, rubber materials, wood, glass, concrete and mineral substrates. Ideal assembly adhesive with numerous applications, also on non-absorbent surfaces. The adhesive joint remains flexible and can absorb tensile forces and vibrations. The adhesive already contains all components necessary for the reaction. For highest compound and adhesion requirements. Before use, the product must be tested for suitability.

Directions for use

In general, application to one surface will be sufficient. The substrates have to be clamped together for approx. 2 hours at room temperature. Increasing the temperature to max. 80 °C can reduce the curing time considerably. Curing is bubble-free and without reaction shrinkage. Complete cure within a week at room temperature, independent of the adhesive application thickness. The surfaces to be bonded must be clean, dry and grease-free. Slight sanding will usually be advantageous for the bond strength.

Manual application is usually from a standard silicone cartridge (2 chambers) or a side-by-side cartridge using a static mixer with at least 18 – 24 elements. A suitable type of gun would be a squeeze-out piston type for cartridges, which can be operated manually or by electronic controls. We do not recommend using guns operating with compressed air, since the air jet exerts uncontrolled pressure on both chambers which may prevent a homogeneous mixing result. In industrial applications, automated processing from hobbocks or drums using 2-component dosing and mixing units.



	Jowat® 690.00	Jowat® 690.20	Jowat® 691.45
Chemical basis	SE polymer	SE polymer	SE polymer
Colour	blackish-grey	blackish-grey	blackish-grey
Viscosity [mPas]	50,000	50,000	stably, pasty
Processing time [min]	30	8	30
Handling strength [min]	120	30	120
Fast curing (up to 80 °C)	yes	yes	yes
Tensile strain at break* [%]	80	80	80
Tensile strength* [N/mm²]	4.8	4.8	4.8
Shore hardness	A 75	A 75	A 75

*following DIN EN ISO 527)

Jowat | Ihr Partner in Sachen Kleben

Jowat | Your Partner in bonding



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Jowat – Kleben erster Klasse
Jowat – first class bonding

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