

SIMFLEX® HYBRID PU

Description

Simflex® Hybrid PU Sealant is one component sealant based on silane modified polymer, which cures by reaction with moisture to a soft elastic product. The skin formation and curing times are dependent on humidity and temperature, and curing time also depends on joint depth. By increasing the temperature and moisture these times can be reduced; low temperature as well as low moisture retard the process. Simflex® Hybrid PU is a free of solvents, isocyanate's, silicone and PVC. It demonstrates good adhesion to many substrates and is compatible with suitable paint systems. The sealant also demonstrates good UV resistance and can therefore be used for interior and exterior applications. Simflex® Hybrid PU allows accelerated curing as two-component material.

Technology	Silane-modified polymer
Product Type	Sealant
Components	One component
Cure	Humidity
Application	Assembly
Colour	White, Grey, Black
Consistency	Pasty, Thixotropic
Odor	Characteristic

Areas of Applications

Simflex® Hybrid PU is used for the following applications; Seam joint and sealing in vehicle body, railway carriage and container manufacture; ship and boat building; metal construction; electrical, plastics, air conditioning and ventilation industries; for the conventional vehicle window glazing between rubber profile and glass (good adhesion to most rubber qualities, even on EPDM- basis), for bonding of floors coverings in bus manufacturing.

Technical Data

TECHNICAL DATA Density, g/cm³	Approx, 1.5
Sag Resistance	No Sagging (DIN Profile 15mm)
Skin formation time, min*:	Approx, 10 to 40
Cure rate, mm/24 hrs:	Approx, 4
Shore-A-hardness (ISO 868, Durometer A)	Approx, 30
UV resistance: No signif.	Changes
Stress at 100% elongation (acc. to ISO 37), MPa:	0.6
Volume change (acc. to DIN 52451),%	<2
Application temperature, °C	5 to 40
In service temperature range, °C	-50 to +80

Pre-Treatment

The substrates must be clean, dry, oil and grease free. Depending on the surface it can be necessary to roughen the surface or to use a primer/adhesion promoter to provide best adhesion. When manufacturing plastics, external release agents are often used; these agents must be accurately removed prior to starting bonding or sealing. Due to the difference compositions of paints, especially powder paints and large number of different substrates, application trials before use are necessary.

