

# PURAFLEX<sup>®</sup> 6005-1

## IMPORTANT BENEFITS

- Clear transparent
- Durable and reliable
- Safe for employees and the environment

## DESCRIPTION

Puraflex 6005-1 is a good compromise of an adhesive and sealant and is fit for making crystal clear elastic seals. Puraflex 6005-1 is based on Silyl Modified Polymer (SMP).

## APPLICATIONS

- Elastic seals, assembly solutions such as transparent cover panels and machinery cover panels to be found i.e. busses-, caravans-, train- and yachts.
- Sealant for various colored substrates
- Top seals for glass substrates on wood- and metal seals
- Sealing of polyester and aluminum painted or pre painted panels

## CHARACTERISTICS

- Clear transparent
- Solvent -, isocyanate- and PVC free
- Generally good adhesion on diverse substrates without using a primer
- Permanent elasticity with a temperature range of  $-40\text{ }^{\circ}\text{C}$  and  $+80\text{ }^{\circ}\text{C}$
- Neutral, scentless and fast curing
- Paint tolerant with most industrial paint systems based on alkydresin- as well on dispersion base (due to the diversity of industrial paints it's recommended to first perform a paint tolerance test)
- Resistant against mold

## TECHNICAL CHARACTERISTICS

Base	Silyl Modified Polymer (SMP)
Curing method	moisture
Density	ca. 1,08 g/cm <sup>3</sup>
Skin forming time	ca. 4 min. (20 °C/50% R.V.)
Curing after 24h	ca. 2 mm (20 °C/50% R.V.)
Shore A hardness	ca. 42 (DIN 53505)
Volume change	< 4% (DIN 52451)
Tensile strength at break	ca. 1,0 MPa (DIN 53504/ISO 37)
Elongation at break	ca. 400% (DIN 53504/ S2)
Shear strength	ca. 2,0 MPa (DIN 53283/ASTM D1002)
E-Modulus(100%)	ca. 1,2 MPa (DIN 53504/ISO 37)
Solvent content	0%
Isocyanate content	0%
Glass transition temperature (Tg)	-50 °C
Temperature resistance	-40 °C to +80 °C
Processing temperature	+5 °C to +40 °C
UV- and weather resistance	good

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## ADHESION

Generally Puraflex 6005-1 shows good adhesion on clean, dry, dust- and lipid free surfaces of: Aluminum, Stainless Steel, Galvanized Steel, Copper, Brass, Powder coated metals, most metal primed substrates, Glass, PVC, GFRP(UP), lacquered wood.

Polyethylene and Polypropylene substrates are to be pretreated with Puraflex PP+PE primer. In situations where high thermal loads and high mechanical loads under moist conditions are required, usage of Puraflex 3002 primer is advised. Puraflex 3002 primer degreases and primes the surface in one step. On untreated wooden surfaces and other porous surfaces, Puraflex Black primer is advised, various other surfaces, Puraflex 3006-1. For information about non mentioned surfaces, please contact Viba N.V.

## APPLICATION

Puraflex 6005-1 can be easily sprayed with a hand- or pneumatic dispensing gun between +5 °C and +40 °C. In sealing applications, Puraflex 6005-1 needs to be finished or stroked out with a spatula/filling knife within 6 minutes (at 20 °C/50% R.V.), moisturizing with a soap solution optional. Avoid penetration of the soap solution between de filling and filler, this can cause adhesive failure. Applications where surfaces have to be bonded to each other need to be fixed within 10 minutes (at 20 °C/50% R.V.).

Generally an adhesive bond thickness of 2 mm is recommended. Cleaning utensils or removing non cured remains of Puraflex 6005-1 needs to be done with a clean pigment free towel, wetted with Puraflex 3004-1. It's highly recommended to test beforehand, for any possible surface degradation by Puraflex 3004-1.

## STORAGE

Puraflex 6005-1 has a shelf life of 12 months if stored as unopened packages between +5 °C and +30 °C.

## INFORMATION ON REQUEST

Following is available on request:

- Material Safety Data Sheet (MSDS)