

TECHNICAL INFORMATION

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Product Name: Polyurethane Based Adhesive Sealant APP – PU 50. APP NO.: 040301, 040302, 040303, 040304, 040311, 040312.

APP – PU 50 is a single component, permanently elastic quick-drying Polyurethane based adhesive sealant of high viscosity, to applied by squeezing. It is purposed for car body repairs and other industrial purposes both indoor and outdoor at low temperature also. It may be covered with top coats applied during of car body repairs. Carries the approval for marine use.

Packaging:	300 ml, an aluminium cartridge, called "closed"; 600 ml sachet.			
Product and additives:	APP – PU 50.			
Basic components:	APP – PU 50 - Polyurethane hardened by moisture contained in air.			
Colour:	Cartridge 040301 – white, 040302 - grey, 040303 - black, Sachet 040311 - grey, 040312 - black. Long time exposure to UV may result in yellowing of white compound.			
Density at 20°C:	black 1.15±0.02 kg/l; other 1.16±0.02 kg/l.			
Stability:	< 3mm (Long time exposure to UV may result in yellowing of white compound ISO 7390).			
Consistence:	dense for extraction.			
Shore'a hardness (3s):	ca. 45° (according to ISO 868).			
Breaking strength:	ca. 10 N/mm (according to DIN 53515).			
Modulus 100%:	0.5 MPa (according to ISO 37).			
Break modulus:	1.40 MPa (according to ISO 37).			
Max elongation at break:	600% (according to ISO 37).			
Resistance:	to water:	v. good	to weather conditions:	v. good
	mechanical:	good	to fuel:	average
	chemical:	average	to mineral oil:	average
	to UV	average	to vegetable and animal fat	average

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to alcohol absence to concentrated acids and absence
bases

Thermal resistance upon hardening: from -40°C to +90°C.

Coverage:

Ø (mm)	2	3	4	5	6	7	8	9	10
L (m)	98	43	24	15	11	8	6	4	3

Caution!

In practice the coverage depends on certain factors including: object shape, substrate roughness, application method and working conditions.

Use

- as a vibration attenuating layer between metals and plastics,
- to bond metals and plastics of car body,
- to seal inner and outer joints during manufacture of railway cars, containers and other steel structures,
- to seal during manufacture of electric components, plastic and air handler units,
- to seal sandwich board locks, cable and pipe service penetrations,
- for building purposes, both indoor and outdoor use,
- to provide watertight fixing and bonding of smooth and porous surfaces including: stone, concrete, gypsum, glass, mirrors, Polycarbonate, Polyester, Polyurethane, PVC and similar synthetic materials, sanitary ware, ceramic building products, china, glazed tiles, enamel components (e.g. steel), copper, zinc, lead, aluminium, stainless steel, wood and wood-based materials.

Substrate

Appropriate
substrate type:

APP – PU 50 features with an excellent bond-strength, without any special primer to:

- stainless steel, anodized aluminium, coated and enamelled surfaces, plastic reinforced with glass fibre,
- Porous and nonporous materials including: glass, stone, concrete, gypsum, Polyester, Polyurethane, PVC and similar synthetic materials,
- Sanitary ware, ceramic building products, china, glazed tiles,

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enamel components, ceramic tiles and terracotta tiles,

- Copper, zinc, lead, aluminium, stainless steel, impregnated wood and wood-based materials.

Caution! Do not use for bonds with PE, PP and Teflon.

To improve anti-corrosion protection it is recommended to cover car body steel elements with primer or filling primer before product application.

Substrate preparation:



Before applying APP-PU 50, firstly remove any dust, dry and degrease the treated surface with:

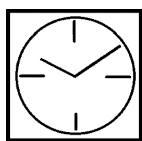
- Alcohol-based remover (ethanol),
- Acetone (glass, aluminium),
- W900 or WB900 remover.

Application

Screw the plastic nozzle on the threaded end of the cartouche and cut it diagonally, so as to match the width of the joint. In case of nozzle along with guide ("butterfly" type) APP MTL1 (110601, 110603) cut both guide and nozzle.

Puncture the threaded end. Insert the cartridge in a manually operated or pneumatic squeezer for sealing compounds. After spreading the compound, it is possible to form (smooth) it within approximately 15-20 minutes with a wet spatula. Application temperature: from +5°C to +35°C.

Drying



Hardening of APP – PU 50 follows immediately upon application depending on ambient temperature and relative humidity.

At temperature +23°C and relative humidity of 50%:

- Skinning: ca. 60 minutes.
- Hardening rate: ca. 4 mm / 24 h.

Drying time depends on temperature, relative humidity, joint thickness and depth. During hardening avoid any contact with silicones, alcohol vapours and detergents. Protect against water vapour condensation (risk of bubble development within adhesive and surface deformation). The product is suitable for use within 24 hours after opening the packaging.

Coverage:

Following 5-6 hours depending on coat thickness APP – PU 50 Polyurethane sealant may be covered with base coats or top coats purposed for car body renovation and repairs.

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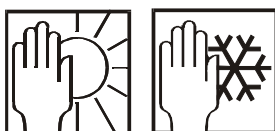
Do not cover with alkyd resin based paints (always make a test due to risk of top coat cracking and long drying time).

Tool cleaning:

Before hardening: acetone, extraction naphtha, MEK.

After hardening: mechanical cleaning.

Storage:



Store in closed, original containers, in dry and well ventilated spaces.
Storage temperature: from +5°C to +25°C.

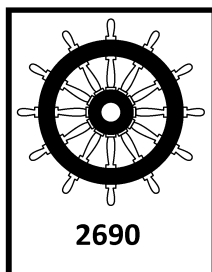
Occupational safety:



Product for professional use only.

See: labels on containers and MSDS.

User shall follow locally and regionally applicable industrial safety regulations.



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