

## TECHNICAL INFORMATION

Development date:  
18.11.2022.



Date of update:  
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Page 1 of 4

**Product name: APP PU 50 FC (Fast Cure) fast-curing polyurethane adhesive-sealing mass.**  
**APP No.: 040321, 040322, 040323, 040324, 040317, 040318.**

A fast-curing, one-component, high-viscosity, polyurethane-based sealing mass for use in bodywork and paint repairs, in the machine industry, and in construction. Intended for extruding in a cylindrical form or spreading with a brush after extrusion. It creates an elastic and durable seam with very high adhesion to most materials. It is suitable for coating with top coat paints used in car bodywork repairs. After opening the package, the mass remains suitable for use for a period of 24 hour.

Packaging	310 ml – aluminum “closed” cartridge; 600 ml - pouch.			
Product and additions	APP PU 50 FC.			
Basic ingredients	APP PU 50 FC – quick-bonding polyurethane cured under ambient moisture.			
Color	<ul style="list-style-type: none"><li>• Cartridge: 040321 - white, 040322 - grey, 040323 – black, 040324 – beige.</li><li>• Pouch: 040317 - grey, 040318 - black.</li></ul> <p>Long exposure of the white colored mass to UV radiation may cause yellow discoloration..</p>			
Specific weight/density	1,08±0,03 g/cm <sup>3</sup> (DIN 53479).			
Consistency	Thick extrusion paste.			
Shore's A hardness	50±5 (wg ISO 868).			
Tensile strength	>2,5 N/mm <sup>2</sup> (ISO 37).			
Max. elongation until breaking	300% (as per ISO 37).			
Resistance	to water:	v. good	to atmospheric conditions:	v. good
	to salt water:	v. good	to detergents in water:	v. good
	chemical:	average	to cement grout:	good
	to UV	average	to fuels and oils:	none
	to alcohol	none	to concentrated acids and bases:	none

Thermal resistance after curing: from -30°C to +80°C.

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Page 2 of 4

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Efficiency

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, efficiency depends on factors such as: the shape of the seam, surface roughness, application method and working conditions.

### Applications

- Joining and sealing metal sheets exposed to vibrations.
- Flexible gluing of metals and plastics in vehicle bodies.
- Flexible interior and exterior sealing of seams and connections in the production of carriages, containers, and other metal constructions.
- Sealing in industries specializing in the manufacture of electrical or plastic components, air-conditioning and ventilation systems.
- Sealing of locks in sandwich panels, pipe and cable culverts.
- Universal sealant for general interior and exterior construction applications.
- Watertight fastening and gluing of smooth and porous surfaces such as: stone, concrete, plasters, glass, mirrors, polycarbonate (PC), polyester, polyurethane (PU), PVC, and similar types of synthetic materials, building ceramics, sanitary ceramics, porcelain, glazed and enameled elements (e.g. enameled steel), copper, zinc, lead, aluminum, stainless steel, wood and wood-based materials.

### Substrate

Appropriate substrates

The APP PU 50 FC sealant has excellent adhesion without special any special primer to:

- stainless steel, anodized aluminum, lacquered and enameled surfaces, glass-fiber reinforced plastics,
- porous and non-porous materials such as: glass, stone, concrete, plasters, polyester, polyurethane (PU), PVC, and similar types of synthetic materials,

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Page 3 of 4

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Appropriate substrates, cont.

- building ceramics, sanitary ceramics, porcelain, glazed and enameled elements, ceramic and enameled tiles, and terracotta,
- copper, zinc, lead, aluminum, stainless steel, impregnated wood and wood-based materials.

Caution! Do not use for connections from PE, PP and Teflon.

In order to increase anti-corrosive properties, it is recommended to coat steel bodywork panels with a primer or primer filler.

Substrate preparation:



Before applying the APP PU 50 FC sealing mass, the surface needs to be dried, dusted and de-greased:

- using an APP IPA alcohol-based cleaner,
- with acetone (glass, aluminum),
- using the APP W900 or APP WB910 cleaner.

Method of use

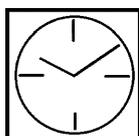
Cut the plastic nozzle attached to the packaging diagonally, appropriate to the width of the seam. In the case of using the APP MTL1 (110601, 110603) guided nozzle (so called “butterfly”), cut the guide and the nozzle correspondingly.

Puncture the threaded end of the cartridge. Screw on the previously prepared nozzle. Remove the aluminum cartridge bottom cover.

Place the cartridge in a manual, pneumatic or electric sealing mass extruder. The maximum width / depth of the seam is 12 mm. After applying, the mass can be molded (smoothed) within approximately 15-20 minutes using, e.g. a moist putty knife.

Application temperature: from +5°C to +35°C.

Drying / Curing



Curing of the APP PU 50 FC sealing mass begins immediately after application and depends on the temperature and air humidity.

In temperatures of +25°C and relative humidity of 50%:

- skin formation: approx. 50-60 minutes,
- curing rate: approx. 3 mm / 24 hours.

The drying time depends on the temperature, air humidity, and seam thickness and depth. During the curing process, avoid contact with alcohol and other solvents. Protect against water vapor condensation (risk of forming bubbles in the sealing mass structure and surface deformation). The mass is usable for 24 hours after opening the packaging.

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Page 4 of 4

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### Coating:

The APP PU 50 FC polyurethane sealant, depending on the layer thickness, is ready to be coated with base coats and top coats used in vehicle body repair and renovation after 4-5 hours.

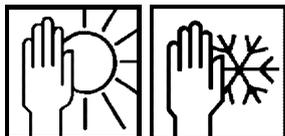
Caution! Do not coat using alkyd resin-based paints (perform tests) due to the risk of cracks in the paint coat and extended drying time.

### Equipment cleaning:

Before curing – acetone, alcohol, MEK.

After curing – mechanical cleaning.

### Storage:



Store in sealed, original packaging in a dry and well ventilated area.  
Storage temperature: from +5°C to +25°C.

### Health and Safety

#### Regulations:



For professional use only.

See: text contained on product labels or the product safety data sheet..

The user must follow OHS regulations applicable in the given country.

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