



# **Polyurethane sealant PU UK**

Polyurethane sealant PU UK is a one-part, very fast curing, polyurethane elastic adhesive and sealant designed for

car body construction and repair which cures on exposure to atmospheric moisture. Specifically

developed to meet the car industry requirements, thanks to its balanced viscosity the product can

easy to be brushed and tooled in order to match the original brush mark. Once cured, the products

reach high levels of hardness that gives a first equipment appearance to the material.



- Very fast skinning and curing time
- Over-paintable, even in a short time, with many water and solvent based paints (preliminary tests recommended)
- Can be easily tooled, brushed and smoothed
- Capable of withstanding high dynamic stresses
- Bonds and seals at the same time
- Wide spectrum of adhesion
- Permanently flexible
- Vibration and sound dampening properties

# Areas of Application:

The product is suitable for sealing, seam sealing (welded seams, lap panels in all internal vehicle bodywork and painted sheet metals which includes the reproduction of original brush marks and seam sealing), simple bonding as well as for vibration reduction and sound deadening measures in car body repair and car body construction. Suitable substrates are metals, metal primers and paint coatings (2-c systems), painted plastics.

Technical	data:
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Appearance	I hixotropic paste	
Colour	White, Grey, Black	
Chemical nature	Polyurethane	

RANAL Sp. z o.o.		Nr rej.: 000029202
Tel.: +48 34 329 45 03	Łódzka 3	www.ranal.pl
Fax: +48 34 320 12 16	42-240 Rudniki, PL	ranal@ranal.pl







# **TECHNICAL DATA SHEET**

Curing Mechanism	Moisture-curing	
<b>Głębokość utwardzania</b> [mm]	(1 day at 23°C and 50% r.h.) ≥ 4	
Shore A	(23°C and 50% r.h; DIN 53505) 52	
Density [g/cc]	(23°C and 50% r.h.)	
	Colour black: 1,24 ± 0,02 Colour grey: 1,27 ± 0,02 Colour white: 1,30 ± 0,02	
Tack-free time [min]	(23°C and 50% r.h.) 25-30	
Tensile strength [N/mm2]	(ISO 37 DIN 53504) ≥ 2,0	
Elongation [%]	(ISO 37 DIN 53504) ≥ 250	
Application temperature [°C]	from +5 to +40	
Temperature Resistance [°C]	-40/+90 with brief point at 120	

# Surface preparation:

Pre-test substrates for adhesion. Cleaners and/or primers may be required to achieve optimal adhesion.

Surfaces must be clean, dry, free of water, oil, grease or rust and of sound quality. Remove all loose particles or residues with a jet of compressed air, sandpaper or hard brush. Glass, metal and other non-porous surfaces must be free of any coatings and wiped clean with solvent. Pierce through the protective membrane in the front threaded section. Screw on the plastic nozzle and cut it at an angle according to the desired bead thickness and profile. Fit the cartridge into a manual or pneumatic air operated gun (provided with telescopic piston) and extrude the adhesive/sealant carefully preventing air entrapment. Once opened, packs should be used up within a relatively short time.

The optimum operating temperature for both substrate and sealant is between 15°C and 25°C.

# **Chemical Resistance:**

Long term resistance to fresh water, seawater, lime water and cleaning agents. Short term resistance to petrol, grease and mineral oil. Not resistant to organic acids, concentrated mineral acids, pool water, caustic solutions or solvents. This information is offered for general guidance only. Advice on specific applications will be given on request.

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# Finishing indications and limitations:

Tooling and finishing must be carried out within the tack-free time of the sealant. Polyurethane sealant RANAL can be over-painted. The paint must be tested for compatibility by carrying out preliminary trials. Attention must be observed with the use of alcohol or alkyd-resin since they may interfere with the curing process of the sealant and reduce the drying time of the paint itself. It should be understood that the hardness and film thickness of the paint may impair the elasticity of the sealant and lead to cracking of the paint film.

Avoid exposure to high levels of chlorine (avoid sealing joints in chlorinated swimming pools). Do not cure in the presence of curing silicone sealants. Avoid contact with alcohol and other solvent cleaners during cure. When applying sealant, avoid air-entrapment. Since system is moisturecured, permit sufficient exposure to air. Bonded elements may require additional holding or support during curing period.

# **Tools cleaning:**

Clean tools with acetone or alcohol immediately after use. Cured material can only be removed mechanically.

# Storage:

To be stored in dry and cool place, away from the sources of light and heat. Avoid sun exposure. Storage time of the product in the original package in the temperature between 10°C a 25°C is equal to 18 months.

# Health and safety recommendations:

Apply safety data sheet of the particular product.

# Packaging:

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Art.Nr	Capacity, ml:	Package, pieces:	
20411-1 [white]	310ml	12	
20431-1 [grey]	310ml	12	
20441-1 [black]	310ml	12	

This information is based on careful, laboratory research and our long-standing experience. Strong market position does not absolve us from constant control of the quality of our products. However, we are not responsible for the final results after incorrect use of the product.

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Fax: +48 34 320 12 16	42-240 Rudniki, PL	ranal@ranal.pl	