

TECHNICAL DATA SHEET

TECHNIPLAST 500 PU variant of UVR-M, UVR-C, UVR-T, UVLS.

TWO-COMPONENT, HIGHLY FLEXIBLE POLYURETHANE RESIN

CHARACTERISTIC

Great flexibility.

High ability to cover scratches and cracks in the substrate.

Long-term resistance to UV radiation.

In the TECHNIPLAST 500 PU UVLS variant, thanks to the use of the HALS light stabilizer, UV radiation blocker and optical brightener, it is characterized by almost perfect transparency and even higher resistance to light and UV radiation.

Chemical and mechanical resistance.

Easy application.

PURPOSE

TECHNIPLAST 500 PU is a universal two-component polyurethane resin with a very wide application in many industries and in construction. Most often used, among others, for:

creating flooring solutions, both internal and external, exposed to UV radiation and weather conditions, by producers of floor systems;

"stone carpet" flooring, as a binder - by their producers;

creating small castings;

creating flexible protective layers in printing;

flooding printed circuits in electronics.

COMPOSITION

TECHNIPLAST 500 PU UVR-M	Component A Component B Mixing ratio	- polyurethane resin (natural color) - hardener for polyurethane resins - 25: 5
TECHNIPLAST 500 PU UVR-C	Component A Component B Mixing ratio	- polyurethane resin (color according to the Techniart palette) - hardener for polyurethane resins - 27: 5
TECHNIPLAST 500 PU UVR-T	Component A Component B Mixing ratio	- polyurethane resin (transparent) - hardener for polyurethane resins - 7: 5
TECHNIPLAST 500 PU UVLS	Component A Component B Mixing ratio	- polyurethane resin (transparent) - hardener for polyurethane resins - 7: 5

PACKAGING

TECHNIPLAST 500 PU UVR-M	7.5 kg	-	Component A	6.25 kg
		-	Component B	1.25 kg
	15kg	-	Component A	12.5kg
		-	Component B	2.5 kg
	30 kg	-	Component A	25 kg
		-	Component B	5 kg
TECHNIPLAST 500 PU UVR-C	4 kg	-	Component A	3.37 kg
		-	Component B	0.62 kg
	8 kg	-	Component A	6.75 kg
		-	Component B	1.25 kg
	16 kg	-	Component A	13.5 kg
		-	Component B	2.5 kg
	32 kg	-	Component A	27 kg
		-	Component B	5 kg
TECHNIPLAST 500 PU UVR-T	3 kg	-	Component A	1.75 kg
		-	Component B	1.25 kg
	6 kg	-	Component A	3.5 kg
		-	Component B	2.5 kg
		-	Component A	7 kg
		-	Component B	5 kg
	12 kg			
	24 kg	-	Component A	14 kg
		-	Component B	10 kg
TECHNIPLAST 500 PU UVLS	3 kg	-	Component A	1.75 kg
		-	Component B	1.25 kg
	6 kg	-	Component A	3.5 kg
		-	Component B	2.5 kg
	12 kg	-	Component A	7 kg
		-	Component B	5 kg
	24 kg	-	Component A	14 kg
		-	Component B	10 kg

STORAGE

Store in factory closed packages, in conditions free from moisture, freezing and contact with fire - max. 12 months.

TEHNICAL DATA

TECHNIPLAST 500 PU UVR-M	DENSITY Component A	- 2.18 kg / dm ³ (+25 °C)
	DENSITY Component B	-1.14 kg / dm ³ (+25 °C)
	DENSITY Component A + B	-1.87 kg / dm ³ (+25 °C)
	EFFLUX TIME A + B	- 80 s (Ford 8 mm cup +25 °C)
TECHNIPLAST 500 PU UVR-C	DENSITY Component A	- 2.16 kg / dm ³ (+25 °C)
	DENSITY Component B	-1.14 kg / dm ³ (+25 °C)

TECHNIPLAST 500 PU UVR-T	DENSITY Component A + B	-1.86 kg / dm ³ (+25 °C)
	EFFLUXTIME A + B	- 100 s (Ford 8 mm cup +25 °C)
TECHNIPLAST 500 PU UVLS	DENSITY Component A	-0.98 kg / dm ³ (+25 °C)
	DENSITY Component B	-1.14 kg / dm ³ (+25 °C)
	DENSITY Component A + B	-1.05 kg / dm ³ (+25 °C)
	EFFLUX TIME A + B	-40 s (Ford 8 mm cup +25 °C)
TECHNIPLAST 500 PU UVLS	DENSITY Component A	- 0.98 kg / dm ³ (+25 °C)
	DENSITY Component B	-1, 14 kg / dm ³ (+25 °C)
	DENSITY Component A + B	-1.0 5 kg / dm ³ (+25 °C)
	EFFLUX TIME A + B	-4 0 s (Ford 8 mm cup +25 °C)

APPLICATION

CONDITIONS:

AMBIENT TEMPERATURE	min . 10 °C max. 30 °C
SURFACE TEMPERATURE	min. 10 °C and min. 3 °C higher than the dew point temperature
AIR HUMIDITY	max. 75%

MIXING:

The materials intended for use should have a temperature of min. 15 °C.

Pour the entire contents of the package with component B into the package with component A. Stir with a low-speed mixer for about 3 minutes. (in order to avoid excessive aeration of the material, it is recommended to use a stirrer with a speed of about 300 rpm .) Pour the material into a clean container and mix again for about 2 minutes.

Due to the occurring chemical reaction, the material should be applied immediately after mixing. Do not leave mixed material in the package.

TIME OF WORK WITH THE PRODUCT ON THE GROUND:

SHELF LIFE 10 °C	40 - 45 min.
SHELF LIFE 20 °C	20 - 25 min.
SHELF LIFE 30 °C	10 - 15 min.

It should be remembered that coatings exposed to long-term UV radiation may discolor locally, which will not affect their other properties.

CLEANING TOOLS

Tools should be cleaned immediately after use with a solvent such as acetone or xylene.

SAFETY

TECHNIPLAST 500 PU should only be used in ventilated rooms . Avoid contact with skin and eyes. During the application, it is absolutely recommended to use protective glasses, gloves and work clothes. During the works, it is forbidden to use open fire, and also to conduct any works that are its source. Detailed information on safety and environmental protection is available in the Technical Data Sheets **TECHNIPLAST 500 PU UVR-M**, **TECHNIPLAST 500 PU UVR-C**, **TECHNIPLAST 500 PU UVR-T**, **TECHNIPLAST 500 PU UVLS**, which you should absolutely read before each use of the product.

FINAL NOTES

The above information about the **TECHNIPLAST 500 PU product**, and in particular the proposed fields of application and methods of application, have been provided in good faith based on our current knowledge.

The technical data mentioned above are based on laboratory research and testing.

Due to the lack of control over the actual conditions and quality of the application and the way of using the product, TECHNIART reserves that the data contained in this technical data sheet cannot constitute the basis of TECHNIART's liability.

Due to the multitude of possible applications of the TECHNIPLAST 500 PU product, we would like to point out that it is not a construction product in itself within the meaning of the relevant legal regulations.

The product TECHNIPLAST 500 PU is one of the components - the certified and CE marked - TECHNIART FLOOR SYSTEM 500 PU construction product offered by TECHNIART.

With the issue or update of this technical sheet, the previous ones lose their validity.