



NEOPUR PU 402

Polyurethane Based, Two Component Waterproofing Material

DEFINITION:

NEOPUR PU 402 is a two-component, solvent-free, elastic, crack-bridging, polyurethane-based waterproofing material. When cured, it forms a hydrophobic membrane with high mechanical strength. It does not contain solvent, it can be easily applied in closed areas. It shows excellent adhesion to all kinds of surfaces. Due to its suitable consistency, it can be easily applied even in difficult details.

AREAS OF APPLICATION:

- In water tanks,
- In water channels,
- In wet areas where the bottom or top of the ceramic will be left uncovered,
- In pools
- It can be used as a waterproofing material on terraces.

ADVANTAGES:

- It adheres perfectly to almost any surface.
- It does not contain solvent, it can be easily applied in closed areas.
- It has very high hydrophobic and hydrolysis resistance.
- It performs in a wide temperature range. Heat resistance is between -40°C to 90°C.
- It exhibits effective resistance to chemicals.
- It is the most ideal solution for water tanks in terms of cost-performance.

TECHNICAL SPECIFICATIONS

Physical Properties:

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Viscosity (Brookfield cP)	A Com.: 3500 ± 500 B Com.: 1500 ± 50	EN ISO 2555
Density (gr/cm ³)	A+B mix.: 1,50 ± 0,05	EN ISO 2811-1
Solid by Volume (% wt)	A Com.: 100 B Com.: 100	EN ISO 3251



Note: This product is for professional users. The information in this publication is based on our professional knowledge and experience. This information does not eliminate the obligation of users of our products to test their suitability for their place of use. As the implementation and use of our products is beyond our control, none of the recommendations are within our warranty. Users should evaluate our products on their own terms and are solely responsible. The technical data sheets of all our products are updated at regular intervals. Users are responsible for obtaining the latest version.

Sultan Orhan Mh. 1159/2 Sk.
No:2/A Gebze - Kocaeli
Telephone: +90 262 320 07 65
www.neopolkimya.com.tr
info@neopolkimya.com.tr

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Mechanical Properties:

NİTELİK (23 °C, 50 % RH 7 GÜN)	VALUE	STANDARD & METHOD
Elongation at Break (%)	>400	EN ISO 527 ASTM D 412
Tensile Strength (N/mm2)	>3	EN ISO 527 ASTM D 412
Tearing Resistance (N/mm2)	>15	EN 1542 ASTM D 4541
Adhesion Strength (N/mm ²)	>2	EN ISO 868 ASTM D 2240
Surface Hardness (Shore A)	70	EN ISO 868 ASTM D 2240

Technical Properties After Application And Curing:

QUALITY (23°C, 50% RH)	VALUE	STANDARD & METHOD
Mixing ratio	72:28	-
Pot Life (min)	20	100 gr as A+B mixture.
Service Temp. (°C)	-40 // +80	-
Touch Dry (hour)	8-12	23°C'de - 50% RH
Full Cure (day)	7	
Waiting Time Between Floors (hour)	12-24	-



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APPLICATION INFORMATION

Surface Information: The application surface must be solid. The surface must have a compressive strength of at least 25 N/mm² and a pull-off test result of at least 1.5 N/mm². All loose, volatile particles must be free from oil and paint residues, cement grout. Extensive fractures and faults should be repaired beforehand. Cement crust and glossy screed on the concrete surface should be cleaned with tools such as sandblasting, notching machine, diamond drum wiping machine, driven grinder, and the surface should be roughened and wiped. The entire surface should be cleaned of dust with an industrial vacuum cleaner. Concrete surfaces in contact with the soil to be coated must be insulated against water and water vapor barrier beforehand.

- Hardness: R28 = 15 Mpa
- Temperature: 5-35 °C
- Relative humidity: < 85%

Primer Choice: Highly absorbent surfaces such as concrete, cement screed or wood; After impregnation with NEOPRIMER PUR 50SC or NEOPRIMER EP 100WB as a pre-impregnation primer, general purpose primer application can be started.

Preparation of the Mixture: It is a two-component product and should be prepared in the specified mixture ratio, considering the pot life, as much as the amount to be consumed. In order to obtain a homogeneous mixture, the product temperature should not be less than 15°C. Component A should be mixed quickly with a mechanical mixer, and the hardener (component B) should be added by paying attention to the mixing ratio. A and B components should be mixed with a mechanical mixer for at least 3 minutes until homogeneous.

Application to the Surface: The mixture, which is made ready for application, is applied with a roller or airless spray so that the surface is saturated and the pores are closed. It is 12 hours (20°C) as a new layer application time on top of the layer. It is very important that the second coat is applied within the above-mentioned new coat application time. It reaches a full mechanical and chemical resistance in approximately 7 days (23 Co, 50% RH).

-The relative humidity of the air should be at most 80%, the application temperature (environment and surface) should be between +5°C and +35°C.

-There should be no rain in open areas during the application and/or 12 – 24 hours after the application.

-The ground temperature should be 3°C above the current dew drop temperature. (Ask for the Ambient temperature-Ambient Humidity-Dew Temperature table from our company.)

Asphalt Surfaces:

Asphalt surfaces should be cleaned with high pressure water jet, if any, non-adherent aggregates on the surface should be taken with shotblasting and primed with NEOPRIMER PUR 50SC primer or the

surface should be coated with NEOFLOOR PUR 600FLR and waterproofed with NEOPUR PU 402 series.

Bitumen Membranes:

The surface should be primed with NEOPRIMER PUR 100SC primer, cracks and swellings in the old bitumen coatings should be cut and removed, after those sections are putty and repaired with NEOFLEX SEALANT PU 25, waterproofing should be done with NEOPUR PU 402 series.

Plywood:

All joints should be cleaned and taped, the surface should be primed with NEOPRIMER PUR 50SC primer and waterproofed with NEOPUR PU 402 series.

Iron/Steel Surfaces:

It should be cleaned in SA 2,5 quality according to ISO 8501 standard, primed with NEOPRIMER PUR 100SC and applied with NEOPUR PU 402 or other NEOPOL KİMYA waterproofing series.

PACKING INFORMATION:

Component A: 18 kg metal bucket packaging

Component B: 3 kg metal bucket packaging

CONSUMPTION:

1.50 - 2.00 kg/m² should be applied.

STORAGE INFORMATION:

Component A can be stored for 12 months and Component B 9 months from date of manufacture if stored properly in its original, unopened and undamaged packaging in dry conditions at temperatures between +5°C and +30°C.

HEALTH/SAFETY INFORMATION

During the application, work clothes, protective gloves, glasses and masks in accordance with the occupational and worker health rules should be used. Due to the irritating effects of the uncured product, the components should not come into contact with the skin and eyes. In case of contact, wash with plenty of water and soap. If swallowed, seek medical advice immediately. For detailed information, ask your dealer for the Safety Data Sheet (MSDS). Keep out of reach of children. Comply with the Safety Data Sheet (SDS) prepared in accordance with the EU directives regarding the product.



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