

TECHNICAL DATA SHEET

DEMCO PUR 450 UVM/W

WATER-BASED CLEAR POLYURETHANE TOPCOAT VARNISH

DESCRIPTION

DEMCO® PUR 450 UVM/W is a two-component, water-based, PUD-based, clear, aliphatic polyurethane topcoat varnish. It is used on epoxy and polyurethane floor systems as well as on terrazzo, microcement and similar surfaces to create a matt or gloss decorative topcoat and to protect the surface. It provides high UV, abrasion and scratch resistance.

ADVANTAGES

- High UV resistance
- High abrasion and scratch resistance
- Good chemical resistance
- High surface adhesion
- Fast drying
- Low VOC and low odour
- Clear appearance, matt and gloss options
- Can be applied by roller, brush or airless spray.

PRODUCT INFORMATION

Packaging	Available in 10 kg and 20 kg sets. For the 20 kg set: A = 16 kg / B = 4 kg.
Storage and Shelf Life	Store at 15–25°C in dry, closed warehouses away from direct sunlight, in the unopened original packaging; 6 months.

TECHNICAL PROPERTIES

Number of Components	2
Mixing Ratio (by Weight)	A/B (80/20)
Mixed Density (g/cm³, 20°C) (TS EN ISO 2811-1)	1,29 ± 0,10
Solids content (by weight)	43
Pot Life (hours, 23°C, 100 ml) (DIN 16945)	Min. 4
Mixed Viscosity (mPas, 25°C) (EN ISO 3219)	40–60
Theoretical consumption	0.100–0.150 kg/m ²
Dry film thickness	≈ 30 µm / single coat
Touch dry	≈ 45 minutes
Recoat Time (Hours)	≈ 5 hours
Gloss	Matt: 11 / Gloss: 85 (60° gloss meter)

Open to traffic	12°C: 24 h / 23°C: 18 h / 30°C: 12 h
Full Cure (Weeks)	1
*These values may vary depending on environmental conditions (temperature and humidity) and the equipment used to take the measurements.	
Chemical Resistance	In tests based on EN 12720, a rating of 5 (best resistance) on a 0-5 scale was reported against the following chemicals:
	Ethanol (48%) – 1 hour Result: 5/5
	Ammonium hydroxide (10%) – 1 minute Result: 5/5
	Deionised water – 16 hours Result: 5/5
	Coffee (4%) – 16 hours Result: 5/5
	Tea (1%) – 16 hours Result: 5/5
	Red wine – 5 hours Result: 5/5
	Cola – 16 hours Result: 5/5
	Sodium carbonate (10%) Result: 5/5
	Fatty acid – 1 / 5 / 16 hours Result: 5/5
	DOT4 brake fluid – 1 / 24 hours Result: 5/5

LEGAL NOTES

The above information has been prepared for professional users on the basis of laboratory studies and field applications. For company-specific applications and new design work, we recommend consulting our Technical Service. Our company accepts no responsibility for work carried out under unsuitable conditions or outside our control.

This data sheet is a translation of the product's original data sheet (TR). In case of any discrepancy, the original version prevails.

Demmerg Kimya San. ve Tic. A.Ş.

Sırça Cd. No:6/A, Deri Organize Sanayi Bölgesi, 34956 Tuzla / İstanbul, Türkiye

Tel. : +90 (216) 504 64 14

info@demmerg.com | demmerg.com.tr

demmerg.com.tr/en/product/demco-pur-450-uv-m-w/