

# PolyCoat PUR



Polyurea Concrete Waterproof & Chemical resistance Coating

Ver. A1218

## DESCRIPTION:

**PolyCoat PUR** is two component high quality polyurea and zero VOC's (Volatile Organic Compound), 100% solid. (It can be supplied strong resistance to UV with special additive)

## FIELD SOF APPLICATION:

- For waterproof coating on concrete and wood structures.
- For required chemical resistance area.
- For required oil resistance (oil-proof area).
- For multipurpose protection coating.

## FEATURES AND BENEFITS:

Zero VOC's (100% solid).  
Fast curing time (30sec).  
High tensile strength and elongation.  
Cures at -25°F to 300°F.  
Excellent bond strength to properly prepared surfaces.

## PACKAGING:

**PolyCoat PUR "A" & "B"** is available in 200L steel drums.

## APPLICATION METHOD:

Mix ratio 1:1, it must use spraying equipment for polyurea as Graco's Reactor, Glass Craft or other equivalent machine. And keep the pressure minimum 1500psi with heating to 65-70°C. Component "B" must be mixing for 1 hour before spraying, and while spraying.

**Concrete:** Concrete should be allowed to cure a minimum of 28 days the surface of a concrete subfloor should be dry such as moisture content below 8%, it should also be blasting to remove all laitance and expose all voids. And filling below hole with high quality filler such as mortar, epoxy and epoxy.

**Metal:** All the processes should be based on the Specification. If no provisions are in the Specification, the following basic methods and SSPC and should be consulted to prepare a surface. Rusts, dusts, and other contaminants on the surface should be completely eliminated according to the instructions of the supervisor. The surface should be fully dried before coating.

**(b) Cleaning:** of Tools Clean all tools and application equipment with Thinner (Diesel oil, DOP, Ethyl cellosolve) immediately after use. Cured material can only be removed mechanically.

## Color:

Clear/Neutral. Custom colors are available upon.

Disclaimer: we attempt continually to ensure that all information, advices, methods and recommendations noted here in this technical data sheet are accurate. However, because we have no control where and how this product may use or applied, we cannot accept any liability arise from the use of this product.

**Polygon** Polygon Speciality Construction Chemicals

[www.polygon.sa](http://www.polygon.sa)

Tel: +966 112636205 Fax: +96611263105

# PolyCoat PUR

Polyurea Concrete Waterproof & Chemical resistance Coating



Ver. A1218

## Wet properties:

specification	PolyCoat PUR
Appearance	Liquid
Specific gravity (@25°C)	A: 1.05+/- 0.1 B: 1.00 +/-0.1
Solid Cont.%	100%
Viscosity (CPs)	A: 800 +/- 100 B: 500 +/- 100
Thermal stabilit	0°C - 50°C
Shelf life(10-40°C) (Unopened containers)	12 Month

## Dry properties:

specification	PolyCoat PUR
Tensile strength ASTM D 412	22 ±4 Mpa
Elongation	450 ±100%
Hardness (Shore)	90-100 (A) 45-50 (D)
Tear strength	75 ±5 N/mm
Abrasion resistance (1kg ,1000rev)	45mg (CS-17)
Adhesion strength (30Mpa con'c and PM3 primer)	2.5 Mpa
Adhesion strength (PM21primer)	6~10 Mpa
Adhesion strength (Profile 60µm an PM21primer)	Over 15 Mpa
Impact resistance (Thickness 1mm)	Above1.5kg.m

## Process properties:

specification	PolyCoat PUR
Gel time	5 sec.
Tack free time	15 sec.
Recoat	0 -12 hr
Viscosity (CPs)	A: 800 +/- 100 B: 500 +/- 100
Thermal stabilit	0°C - 50°C
Shelf life(10-40°C) (Unopened containers)	12 Month

Disclaimer: we attempt continually to ensure that all information, advices, methods and recommendations noted here in this technical data sheet are accurate. However, because we have no control where and how this product may use or applied, we cannot accept any liability arise from the use of this product.



Polygon Speciality Construction Chemicals

[www.polygon.sa](http://www.polygon.sa)

Tel: +966 112636205 Fax: +96611263105

# PolyCoat PUR

Polyurea Concrete Waterproof & Chemical resistance Coating



Ver. A1218

## Chemical resistance:

Chemical	PolyCoat PS Result
10%-Sulfuric acid	No change
30%-Sodiumchloride	No change
30%-Sodium hydroxide	No change
50%- Sodium hydroxide	No change
Diesel	No change
Salt water resistance	No change

## Caution:

Store in warm place preventing from freezing. Contents should not be exposed for a long time. In case of contact with skin and eyes, flush immediately with plenty of water and seek medical advice. For further information, see the Material Safety Data Sheet.

## Coverage rates:

Thickness	Requirement
1 mm	1.0 kg/m <sup>2</sup>
2 mm	2.0 kg/m <sup>2</sup>
3 mm	3.0 kg/m <sup>2</sup>
Without any loss	



Disclaimer: we attempt continually to ensure that all information, advices, methods and recommendations noted here in this technical data sheet are accurate. However, because we have no control where and how this product may use or applied, we cannot accept any liability arise from the use of this product.



Polygon Speciality Construction Chemicals

[www.polygon.sa](http://www.polygon.sa)

Tel: +966 112636205 Fax: +96611263105