

DP 3000 POLYUREA

High Performance Spray Applied 100% Pure Polyurea

FEATURES

- 1. Excellent physical performance**
Including abrasion resistance, flexibility, elasticity.
- 2. Excellent endurance**
Thermal stability, waterproof properties, chemical resistance.
- 3. Corrosion resistance**
Protection against corrosion for steel and concrete
- 4. Root resistance**
Protection against root for waterproofing and concrete, thus eliminating the need for separate root barrier.
- 5. Easy application**
No building restriction, wide working temperature range.
- 6. Environmentally friendly**
Zero VOC Content.
- 7. Non toxicity**
With official test certificate for potable water application in accordance with WRAS and BS6920-1:2000.

CHARACTERISTICS

1. Environmental protection, rapid construction of new materials.
2. High solid content (100%).
3. Fast gel time about 3 -5 seconds.
4. Non sagging, seamless, can be used over flat or vertical surface at the same time.
5. Excellent adhesion to a wide range of substrates.
6. Not sensitive to temperature and humidity, 5°C low temperature can harden.
7. Low temperature & high temperature resistance, can be applied in -40~135°C.

AREA OF APPLICATION

1. For waterproofing of basement.
2. For waterproofing of water tanks, swimming pools, dams.
3. For waterproofing of courtyard, planter, green roof, etc. landscape areas.
4. For waterproofing and protection of PU foam.
5. For waterproofing of bridge deck and tunnel lining.
6. For waterproofing of roof, podium deck.
7. Abrasion resistance for parking lots flooring, factories.
8. Abrasion resistance for stadium stand and aisles.
9. Corrosion protection for steel structures, steel tanks, steel pipes.
10. Impact resistance for truck bucket.
11. Corrosion resistance and protection for chemical and sewage tank.
12. Corrosion protection for offshore structures.

TECHNICAL DATA

Properties	Test Methods	Results
Hardness (Shore D)	ASTM D2240	≧ 50
Elongation (%)	ASTM D412	a. ≧ 360 b. ≧ 600 (EL grade)
Tear strength (Kgf / cm)	ASTM D1004	≧ 75
Tensile strength (kgf / cm ²)	ASTM D638	≧ 200
Taber abrasion (CS17, 1000g loading, 1000 cycles)	ASTM D4060	≧ 0.02
Water absorption (%)	ASTM D570	≧ 0.50
Chemical resistance (7 days) a. 20% HCl b. 50% NaOH c. 10% H ₂ SO ₄	ASTM D543	No visible change on the appearance

Other information	Results
Solid Content	100%
Density (23°C)	Part A 1.00 – 1.11 g/ cm ³ Part B 1.00 – 1.11 g/ cm ³
Gel time (23°C)	≈ 3 - 5 seconds
Full cure (23°C)	12 hours
Mixing Ratio	1:1 by volume
Application Method	Dosing unit as the subtable spray machine
Heater Temperature	a. Isocyanate: 75 - 80°C b. Amine: 65 - 70°C
Hose Temperature	70 - 75°C
Application pressure of the machine gun	180 – 200 bars (2700 – 2900 psi)
Packaging	200 / 225 kg metal drums

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Shelf life	12 months when it is stored unopened, cool and dry conditions. Once the drum has been opened, the product shall be used immediately.
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APPLICATION PROCEDURES

1. Surface Preparation

The surface should be clean, dry, sound and smooth.

2. Crack repair

By epoxy resin mortar, epoxy resin repair material, one component polyurethane sealant material, one component polyurethane waterproofing material, etc. For further details, please consult your local sales office.

3. Primer

Use the following guide to select the primer:

Substrate	Primer
Bitumen asphalt	DP PUR Primer 3 or DP EP 2-K Primer 1
Concrete / cementitious screed	DP PUR Primer 1 , DP PUR 2-K Primer 1 , DP EP Moisture Tolerance Primer , DP EP 2-K Primer 1 or DP EP 2-K Primer 3
Iron and steel	DP PUR Primer 1 , DP EP 2-K Primer 1 or DP EP 2-K Primer 2
Aged DP POLYUREA 3000 membrane	DP Adhesive Promoting Primer

Consult your local sales office for other situations.

4. Application

Approx. 1.06 - 1.10 kg / m² / mm thickness

Do not apply when rain is imminent or when speed is too big.

5. UV Resistant Top Coat (To be used if long term exposure to UV is required)

DP PUR UV TOP COAT or

DP PUR UV TOP COAT (1-COM)

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this DP Construction Chemicals publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by DP either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not DP Construction Chemicals, are responsible for carrying out procedures appropriate to a specific application.

Edition: Jan 2022

TECH LINK

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