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# POLYTOP HE

## High elongation properties polyurea

### Description

POLYTOP HE is two component, zero VOC's (Volatile Organic Compound), 100% solid. POLYTOP HE has high elongation properties. POLYTOP HE may be applied directly to most substrates, and where adhesion is critical a primer may be used.

### Use

- For waterproof coating on concrete and wood structures. (Airport, apartment, watertank, all most concrete structures).
- For chemical resistance area.
- For oil resistance (oilproof) area.
- For multi purpose protection coating.

### Features

- Zero VOC's (100% solid).
- Short initial curing time (30sec).
- High tensile strength and elongation.
- Cures at -25°F to 300°F.
- Excellent resistance to Thermal Shock.
- Excellent resistance to solvent.
- Excellent resistance to oil and acid(chemical).
- Excellent bond strength to properly prepared surfaces.

### Technical data

#### (Wet properties)

Appearance	liquid
Specific gravity (25°C)	"A" 1.12±0.1 "B" 1.02±0.1
Viscosity(cps)	"A" 800±100 "B" 500±100
Thermal stability	0°C to 50°C
Shelf life(10-40°C) (Unopened containers)	6months

### (Processing properties)

Gel time	10sec
Tack free time	25-30sec
Recoat	0-12

### (Dry properties)

Tensile strength ASTM D 412	Above 2500 psi
Elongation	650±50%
Hardness (Shore)	90-95 (A) 45-50 (D)
Tear strength	80±5 N/mm
Abrasion resistance (1kg, 1000rev)	55mg(CS-17)
Impact resistance (Thickness 1mm)	Above 1.5kg.m

### (Chemical resistance)

10%-Sulfuric acid	Not change
30%-Sodiumchloride	Not change
30%-Sodiumhydroxide	Not change
50%-Sodiumhydroxide	Not change
Diesel	Not change
Salt water resistance	Not change



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### Application

- Mix ratio 1:1 , It must use spraying equipment for polyurea. And keep the pressure minimum 2000psi with heating to 65-70°C.(Pre heater temperature should be approx at 70-75°C and hose temperature should be at 65-75°C). .These include GRACO , SPI company product . And Gun models include GRACO ,SPI company product for polyurea spraying.
- Component "B" must be mixed each day ,while to spray.
- Thinning is not required.
- You check the "SSPC" before start spraying.

### 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.

### Packing

- POLYTOP HE "A" is available in 200L steel drums and "B" is in 200L steel drums.



Floor in chemical factory



Swimming pool



Sculpture



Bomb blast test



Roof repair



Water sliding park

More additional information or technical questions . Please contact our company

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