NCI CHEMICAL INDUSTRY LTD



POLYHARD BL100

Description:

POLYHARD BL100 (Aromatic) is a very fast set, premium, 2-component 100% solids pure polyurea derived from a reaction of an Isocyanate Pre-Polymer and an Amine terminated resin blend. This pure Polyurea has been especially designed to protect trucks, trailers. The material must be applied utilizing high pressure, heated plural component spray proportioning equipment. The product reacts within seconds and once cured, leaves a flexible, durable, tough surface.

Advantages

- 100% solids, no solvents, VOC-free, no odor.
- Extremely fast reactivity and cure with no catalysts.
- Excellent abrasion resistance.
- Excellent corrosion protection, low permeability, saltwater resistant.
- Thermal stability, low temperature flexibility, takes high radiant heat.
- Excellent adhesion to concrete, steel, fiberglass, wood, foams etc.
- Almost immediate return to service time.
- Very good chemical resistance to various chemicals.
- Weather Tolerant: Cures at -30°C to >150°C even in High Humidity.
- Excellent Resistance to Thermal Shock.

Applications

- Truck bed liners
- Trailer bed liners





NCI CHEMICAL INDUSTRY LTD



POLYHARD BL100

Key data			
POLYHARD BL100	Α	В	
Viscosity at 25°C (Rotary viscosity, ISO 3219), mPa.s (cP)	750	450	
Density 23 C	1.11	1.03	
Recommended mix ratio by weight	1.11	1.03	
Recommended mix ratio by volume	1	1	
Solids %	100	100	

 Gel time, sec
 3 . 5

 Tack free, sec
 8 -10

 Recoat time, hrs
 12

 Theoretical coverage
 1ltr/1 m2/1mm

 Cure time @ 23 C
 2 hours 90% / 7days 100%

Physical properties:

Tensile strength, ASTM 412 25 MPa (N/mm2)
Tear strength 3,4 MPa (N/mm2)

Elongation % 450 % Shore hardness D 50 COLORS BLACK

Application

Preconditions: Spraying POLYHARD BL100 requires special equipment, maintaining adequate temperatures and pressure at all times. User must be a professional applicator qualified in the use of high performance Polymer materials and specialty application equipment. Both Side-A and Side-B materials should be preconditioned to at least 25°C before application.

Surface temperature of app. +5°C to 50°C and dew point of not less than 3°C should be kept in view. It has to be watched in particular at high temperatures and high humidity that the surface temperature during the application and the curing process is at minimum 3°C above the dew-point. POLYHARD BL100 may be applied at any rate to achieve desired thickness in single or multiple layers. Should be applied in a cross-directional method, also for vertical or overhead applications. Beware of overspray.

NCI CHEMICAL INDUSTRY LTD



POLYHARD BL100

Mixing: Never dilute POLYHARD BL100, always mix thoroughly . in particular Polyamineside . with power equipment until a homogenous mixture and color is obtained. Do not allow air to be incorporated into the product. Total suspension must be achieved. Isocyanate requires little or no mixing and has to be protected from humidity.

Special equipment: POLYHARD BL100 should be applied using a plural component, heated, high pressure 1:1 spray mixing equipment such as those manufactured by Graco E-XP1, E-XP2, H-XP3. Adequate pressure 170-180 bar and temperature 70-80°C should be maintained at all times.

Storage: POLYHARD BL100 has a shelf life of twelve (12) months from date of manufacture in original, factory sealed containers. Avoid exposure to direct sunlight and freezing temperatures for an extended period of time. Keep drums at room temperature and place on wooden pallets to avoid direct contact to ground. Rotate drums Side-A and Side-B regularly if stored for longer periods.

More informations at you supplier and distributor.

Emergency telephone number: (00357-22623303)

Packaging & Storage

POLYHARD BL100 is supplied in 445kgs kits. The product has a shelf life of one year when stored at room temperature in the original sealed container.

Limitations: Do not open drums until ready to use. Both sides A and B containers must be fitted with a desiccant device during use. Dong use on wet surfaces or expose Isocyanate to moisture. Best results over vapor barrier and/or compatible primer. Avoid freezing temperatures and keep out of direct sunlight. Pre-heat drums as needed per environmental temperature.

Important Note:

All guidelines, recommendations, statements and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either impressed or implied. It is the users responsibility to satisfy himself by his own information and tests, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability from his use of the product.

NCI CHEMICAL INDUSTRY LTD

8 Ipponaktos street, Nicosia, Cyprus, 1016 Tel: 00357-22623303

Fax: 00357-22624265 info@ncipolyurea.com www.ncipolyurea.com



