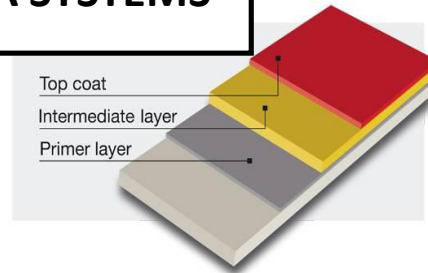




## POLYUREA SYSTEMS



### POLYCOLD 100

POLYASPARTIC/ALIPHATIC POLYUREA

#### Features

POLYCOLD 100, 100% solids (polyaspartic aliphatic / polyurea) spray or roller applied coating system. The POLYCOLD 100 is a hand mix system and gives operators about 40 minutes of spray pot life. The POLYCOLD 100 is moisture insensitive and very fast curing. Components are mixed on a 1 to 1 ratio with hand mix equipment. The product will provide effective cover and is extremely color stable and displays excellent UV weathering characteristics. The POLYCOLD 100 provides a tough, high gloss, abrasion resistant, uniformly smooth finish. Used as a topcoat, POLYCOLD 100 will provide added UV protection and color stability to aromatic polyurea products.

#### Advantages

- 100% solids, no solvents, VOC-free, no odor
- UV stable.
- Very good workability.
- Odorless, No Toxic Vapors.
- Formulated as a System with **NCI POLYUREA** Products.
- Applied by Brush, Spray or Roller.
- Excellent adhesion
- Very Good adhesion on properly prepared primed concrete.

#### Applications.

Coating for concrete.  
Top-coat for NCI POLYUREA systems.  
Top-coat for epoxy systems.  
Top-coat for polyurethane systems.  
Consumption: 150-250gr m<sup>2</sup>

#### Key data

##### POLYCOLD 100

	A	B
Viscosity at 25°C ( <i>Rotary viscosity, ISO 3219</i> ), mPa.s (cP)	500	700
Recommended mix ratio by weight	1	1
Solids %	100	100

Initial mix viscosity @ 23 C, mPa.s (cP)	600
Pot life @ 23 C, min	40
Gel time, TECAM, 250 g, @ 23 C, min	80
Film appearance, visual	Glossy, no blushing/exudation
Walk on Cure time @ 23 C, hrs	8

**Typical data****POLYCOLD 100**

	<b>A</b>	<b>B</b>
Aspect (visual)	Color liquid	clear liquid
Vapor pressure at 20°C (balance), Pa	0.1	0.3
Density at 20°C (ISO 1675), g/cm <sup>3</sup>	1.10	1.15
Flash point (Pensky Martens, ISO 2719), °C >	145	203

---

**Physical properties:**

<b>Tensile strength, ASTM 412</b>	<b>40 MPa (N/mm<sup>2</sup>)</b>
<b>Elongation %</b>	<b>60%</b>
<b>Shore hardness D</b>	<b>90</b>
<b>STD COLORS</b>	<b>7035 RAL (GREY)</b>
	<b>7040 RAL (GREY)</b>
	<b>5015 RAL (BLUE)</b>
	<b>WHITE</b>

---

**Surface Preparation:**

Concrete: Concrete must have a 28 day cure prior to application. Remove any curing agent, from release materials, oils, wax, moisture or any material that may affect bonding. Clean and wash to remove contaminants and maintain 5% residual moisture. Perform a moisture vapor test before making the coating application on concrete. Provide rough profile 6 to 8 mil. Seal/repair all bug holes, cracks and spills.

Steel, Cast-Iron: Metal surfaces too must be free of any residues. Sanding and scuffing of the original paint finish is required to get best bond on metal. Use 40 grit sanding disc with power tool or 80 to 100 grit sandpaper if sanded manually.

Prime: Primer is always recommended to take care of voids, pot holes or bug holes and to improve adhesion properties. Area must be free of dust prior to application. Film may be applied using airless sprayer, brush or core roller. Allow Primer to become tack-free before applying the coating.

More information at you supplier and distributor.

Emergence telephone number: (00357-22623303)

---

**Packaging & Storage**

POLYCOLD 100 is supplied in 10kgs and 40kgs kits. The product has a shelf life of one year when stored at room temperature in the original sealed container.

**NCI CHEMICAL INDUSTRY LTD**

8 Ipponaktos street, Nicosia,

Cyprus, 1016

Tel: 00357-22623303

Fax: 00357-22624265

[info@ncipolyurea.com](mailto:info@ncipolyurea.com)

[www.ncipolyurea.com](http://www.ncipolyurea.com)

