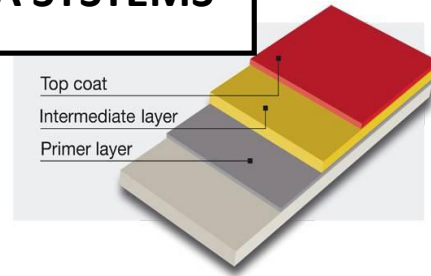




POLYUREA SYSTEMS



POLYCOLD S90

POLYASPARTIC/ALIPHATIC POLYUREA

Features

POLYCOLD S90, 90% solids (polyaspartic aliphatic / polyurea) spray, brush or roller applied coating system. The POLYCOLD S90 is a hand mix system and gives operators about 40 minutes of spray pot life. The POLYCOLD S90 100 is moisture insensitive and very fast curing. Components are mixed on a 3 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 S90 provides a tough, high gloss, abrasion resistant, uniformly smooth finish. Used as a topcoat, POLYCOLD S90 will provide added UV protection and color stability to aromatic polyurea products.

Advantages

- High solid content.
- UV stable.
- Very good workability.
- 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 metal heavy duty applications.
 Top-coat for NCI POLYUREA systems.
 Top-coat for epoxy systems.
 Top-coat for polyurethane systems.
 Consumption: 150-250gr m2

Key data

POLYCOLD S90

Viscosity at 25°C (*Rotary viscosity, ISO 3219*), mPa.s (cP)
 Recommended mix ratio by weight
 Solids %

	A	B
Viscosity at 25°C (<i>Rotary viscosity, ISO 3219</i>), mPa.s (cP)	200	700
Recommended mix ratio by weight	3	1
Solids %	80	100

Aspect (visual)

Color liquid clear liquid

Vapor pressure at 20°C (balance), Pa
 Density at 20°C (ISO 1675), g/cm³
 Flash point (Pensky Martens, ISO 2719), °C >

Vapor pressure at 20°C (balance), Pa	0.1	0.3
Density at 20°C (ISO 1675), g/cm ³	1.20	1.15
Flash point (Pensky Martens, ISO 2719), °C >	145	203

Initial mix viscosity @ 23 C, mPa.s (cP)
 Pot life @ 23 C, min
 Gel time, TECAM, 250 g, @ 23 C, min
 Film appearance, visual
 Walk on Cure time @ 23 C, hrs

Initial mix viscosity @ 23 C, mPa.s (cP)	350
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	3



POLYCOLD S90

Physical properties:

Tensile strength, ASTM 412	45 MPa (N/mm ²)
Elongation %	40%
Shore hardness D	80
STD COLORS	7035 RAL (GREY) 7040 RAL (GREY) 5015 RAL (BLUE) WHITE

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. Film may be applied using airless sprayer, air assistance gun and brush or core roller

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. New metals have to be prepared By sandblasting. Film may be applied using airless sprayer, air assistance gun, brush or core roller. Prime is always recommended. Prefer epoxy. (Contact your local supplier for more information's).

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, air assistance gun and 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 S90 is supplied in 4ltr and 20ltr 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
www.ncipolyurea.com

