



RAZON

2K Polyurethane Coating



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RAZON PU 414P

(High Performance Polyurethane coating)

RAZON PU 414P is a two component UV and chemical resistant coating for waterproofing, and corrosion protection of concrete and metallic structures. Due to its aliphatic crosslinking agents and pleasing colors it can be used for external applications since it withstands prolonged exposure to UV.

Due to the chemistry of the resin, pigments and crosslinking agent, its service life is unaffected by chemical attack.

Areas of Application

- For waterproofing of all external vertical surfaces and horizontal surfaces.
- For protection of metallic surfaces like roofing sheets, Mild Steel angles, channels, tubes and structural steel, grills, etc in saline environments, as well as protection of underground water pipes

Features:-

- Two component, provided in factory prepared proportions, just mix and use at site.
- No dilutions with water or solvents required at site
- Non yellowing upon exposure to UV rays
- Good elasticity and flexibility even at high and low temperatures.
- Chemical resistance to most industrial chemicals, acids and alkalies.

Method of use

On Concrete:- Clean the surface thoroughly, remove all previous coatings by mechanical scrubbing the surface with wire brush wheel on an angle grinder and wipe the surface with a dry cloth. This procedure ensures surface that is to receive the coating is firm, and dust free.

Ensure surface is totally dry, free of dust, grease, oil, loose particles.

Seal all cracks and crevices using a spatula with RAZON BOND-40. Allow 12 hours curing

For metallic surfaces:- Sand blast the surface to remove all loose and foreign material. Seal and fill all imperfections with RAZON BOND-40 epoxy putty, and allow the epoxy putty to cure for 12 hours.

Prepare the coating material by mixing the resin and hardner in the ratio provided (1:9 Hardner : resin). Mix it with a low rpm mechanical mixer for atleast 180 seconds, a homogenous paint consistency is obtained.

Apply RAZON PU 414P with a brush or roller, Allow the first coat to dry for 6 hours at 30°C and then apply the second coat.

Each coat requires about 6 hours for its setting. Final cure of the coating takes place in upto 5 days.

Clean all tools and equipment immediately after use with Thinner.

Performance characteristics of Cured coating:-

Mixing proportion: 1:9 :: Hardner : Resin w/w
Pot life- 45 minutes @ 30°C

Interval between coats:- 3-6 hours

Final cure time:- 7 days

Scratch Resistance (IS 101) – 2-3 kgs

Elongation (ASTM 2370):- > 60%

Bond strength (ASTM D 4541):- 1.5 MPa

Finish : Semi gloss to egg shell finish

Chemical resistance of RAZON PU 414 P

At ambient temperatures PU 414P withstands-
Hydrochloric acid (30%) : Occasional contact
Sulphuric acid (10%) : Regular contact
Sodium Hydroxide (50%) : Occasional contact
Sodium Chloride (Saturated) : Regular contact
Sugar (Saturated) : Regular contact
Xylene : Occasional contact
Petrol & Diesel : Occasional contact
Lubrication oil : Regular contact
Mineral spirits : Regular contact

RAZON PU 414P is provided in standard shades of Brilliant White, Sky blue, and Ash Grey

Packing RAZON PU 414P is available in 1, 5 and 25 kg paks.

Recommended Number of coats – 2.

Coverage;- 60-80 sq.ft / kg/ coat, depending on type of surface. Subsequent coats always offer higher coverage.

Notes 1] RAZON PU 414P has a flash point of approx. 35⁰C, and thus it must be kept away from naked flames or areas where the temperatures exceed the flash point. Store the material in cool, dry place in sealed condition away from direct sunlight and moisture. Never smoke while using PU 414P

2] Stir the contents well before use.

3] Keep the product well sealed after use.

4] Allow copious ventilation when coating and avoid smoking.

S/n	Particulars	
1	Specific Gravity (gms/ltr)	Resin: 1.52, Harder: 1.00, Mixed : 1.48
2	Colour & Consistency	White, Grey, Sky blue,
3	Adhesions to primed RCC/ cement mortar, metal, cement Sheets, etc	Excellent
4	Resistance to continuous UV radiation	Good
5	Resistance to water head	Up to 10 Meter of water head
6	Film thickness	40-50 mils.
7	Coverage	40-80 sq. ft./kg/coat depending upon substrate and its porosity.
8	Abrasion resistance	Medium
9	Absorption coefficient U, V,	0.58
10	Elasticity 5° to 55° Celsius	Excellent.
11	Resistance to algae & fungus growth	Good
12	Life under tropical, arid climatic conditions & heavy rainfall areas.	5-15 years.
13	Mild Acid & Alkali resistance	Withstands as per table above
14	Solvent	Max 2% of Thinner –110,
15	Test Report	ASTM D 4541, ASTM 2320, IS 101

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It is strongly recommended that site trials be conducted using site conditions and available raw materials to evaluate the product. Since site materials and conditions are beyond our control and since above suggestions and recommendations are based on our site trials and laboratory product evaluation & trials, and since methods of use at site are beyond our control. Hence, no guarantee can either be implied or enforceable. All Razon datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

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