

BC 914 CA POLYUREA

Description:-

BC 914 CAPolyurea is a two component, pure grade, brushable polyurea waterproofing coating for concrete substrates , where mechanical durability and outstanding waterproofing properties are required. It forms a blister-free, non-moisture permeable film providing zero water absorption and remarkably high resistance against UV and mechanical stress.

Advantages:

- Prevents moisture penetration by providing a complete sealing.
- Offers increased resistance to bending and stretching.
- Very high mechanical strength.
- Remarkable resistance against UV.
- Excellent bonding to all building substrates such as concrete, plaster, masonry, metal, wood.
- Blister free coating. No appearance of holes in the surface during the curing of material.
- Dries and cures quickly.
- Long pot life.
- Crack bridging properties.
- Easy to apply.
- Long-lasting waterproofing protection.
- Ideal solution for waterproofing walkable roofs.
- Resistant to temperature from -35°C to +80°C.

Technical Properties:

Density (ENISO2811-1:2011)	1.40-1,50 kg/l
Mixing ratio (weight proportion)	100 parts A : 100 parts B (by Weight)
Service temperature	-350C min / +800C max
Hardness Shore A (EN ISO868:2003/ASTM2240)	78
Hardness Shore D (EN ISO868:2003/ASTM2240)	30
Consumption	Approx 1 kg/m ² in 2 coats on concrete surface
Absorption Coefficient (EN1062-3:2008)	0.00 kg/m ²
Substrate humidity	<4%
Application temperature	+50C to+350C
Elongation (ASTMD412)	470%
Tensile strength at break(23oC)	10.1 N/mm ²
Adhesion to concrete (ASTMD4541)	>3N/mm ²
Pot Life	
Temperature	Time
5 Degree C	140 minutes
23Degree C	100minutes
35Degree C	60minutes

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Tack Free Schedule:

Temperature	Time
5 Degree C	10hours
23 Degree C	5hours
35 Degree C	3hours
Recoat / Walkability	
Temperature	Time
5 Degree C 24hours	24hours
23 Degree C	18hours
35 Degree C	12hours

Areas to be applied:

- Roofs made of concrete, ceramic boards, mosaic, cement slurries.
- Rooftops with resistance to stagnant water.
- Metallic surfaces after the application of the proper primer (Use BC 914 CA Polyurea @ BCI PRIMER 349 – 2K water based epoxy primer – in the cases where anticorrosive protection is needed).
- New or old polyurethane waterproofing layers.
- Top coat over fast-setting sprayable aromatic polyurea.
- Protection of polyurethane foam insulation.

Surface Preparation:

The surfaces should be smooth and continuous (i.e., without holes, cracks, bays, etc.). In the opposite case, they should be treated accordingly (e.g., with puttying).

Moreover, they should be clean, dry and free from dust, oils, greases and loose material. Prior to the application, for the filling of the pores, the enhancement of the adhesion and the higher coverage of the material, it is suggested to apply AGUA @ Primer, diluted with water (10-15% by weight). The substrate temperature must be higher than +12°C. In the case of **Metal Roof** treatment, the use of a mesh is required on the corroded sheets.

Application:

Mix the two parts adding Part B to Part A under stirring (400rpm) for 2-3 minutes. **BC 914CA Polyurea** is applied after good stirring with brush, roller, or airless spray, 24 hours after the priming with BC PRIMER 349. **BC 914 CA Polyurea** is applied in two layers without dilution.

Special Notes:

- **BC 914 CA Polyurea** should not be applied under wet conditions, or if wet conditions are expected to prevail during the curing period of the product.
- **Application conditions:** Surface moisture :<4%, Relative atmosphere moisture:<85%. The applications should take place under temperature between +5°C and +35°C.

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Color	White
Packaging	Sets of 20kg in tin cans (components A& B have fixed weight proportion)
Tools Cleaning	Use solvent cleaning agent immediately after application.
Stain Removal	Use solvent cleaning agent when the stains are still fresh & damp. In case of hardened stains, use mechanical means.
Storage Stability	Part A: 2 years (5-45°C) in sealed tin cans.
	Part B: 1 year (5-35°C) in sealed tin cans.

Health and Safety:

The use of this two-component system requires special precautions. Please refer to the material safety datasheet before using. Avoid inhalation of the vapor and contact with skin and eyes. Working areas should be well ventilated with fresh air.

Use protective gloves and glasses in case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water and soap. During spray application, wear suitable respiratory equipment.

The Technical specification information and recommendation given one based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product Building chemistry industry reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of Building chemistry industry no guarantee and or responsibility is assumed on the performance of work completion executed with use of our products.

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