

BOND -WR-01 **FOR CARS AND BUILDINGS** **ECO FRIENDLY NANO COAT**

WATER REPELLANT FOR GLASS, METAL, PAINTS

WR-01 NANO COAT is formulated for WATER REPELLANT & weatherproofing, It forms invisible Nano coatings on the surface and give resistance to water, pollutions, Dust, UV protection, Anti bacterial, Anti corrosive, and protect from acids, alkalis, saline weather, water based chemicals, mould, algae and fungus growth. It can be used for exterior and interior use also. • Glass facades/ Glass Roofs

ADVANTAGES

- Free of fluorocarbon
- Water based formulations
- No heat necessary for activation
- Saving of energy
- Cross linking with surface
- Excellent Water repellence •Resistance to Dust, Dirt, Mould, Algee, etc
- UV Protection
- Save some electricity due to dry air in the rooms due to nano coat reduce load for Air-Condition.
- Protects glass from corrosion (acid rain etc.)
- Transparent Nano coat.
- Very good temperatures resistance.
- Low Cleaning and Maintenance requirements.
- Eco friendly.

WHERE TO USE:- Use On Glass like window, panel, door, Architectural, auto, decorative and solar panel glass and on paint for surface sealing. Glass of building, Cars, offices, homes, wall, means where glass and paints are required to water repellent.

METHOD OF USE:- (1) SURFACE PREPARATION:- Surface should be Dry, clean, even and free from dust, dirt, paint, rust, Algee, grease, soluble salt, or other contaminations and Damp free. For cleaning use cleaner. Coating should be applied and dried in a dust free environment, preferably in clean room conditions.

BOND	WR-01 (RTU) READY TO USE	WR-01 DILUTABLE
TYPE	HYDRIDE FUNCTIONAL CHEMISTRY	HYDRIDE FUNCTIONAL CHEMISTRY
Color	Translucent	Translucent
SOLID % BY VOLUME	2+-1%	5 +-1%
FLASH POINT	None	None
Dilution with DM water/ Distilled water	RTU	1:1
METHOD OF USE	Brush/Roller/pump spray/ Trigger spray/ sponge/ polishing/ Dipping or Smearing using soft cloth/tissue paper or Washing machine	Brush/Roller/pump spray/ Trigger spray/ sponge/ polishing/ Dipping or Smearing using soft cloth/tissue paper or Washing machine
FULL CURE TIME	2 days	2 days
COVERGE / Lit./ coat (Theoretically)	250-275 Sq. Ft. On Smooth surface	500-550 Sq. Ft. after dilution On Smooth surface
UV Resistance	Excellent	Excellent
Water Repellency	After 2 Days Excellent	After 2 Days Excellent

STORAGE LIFE Months	12 Months	12 Months
PACKING LITERS	1, 5, 30 & 50 Kg Carboys	1,5, 30 & 50 Kg Carboys

Curing

• Allow the coating to dry naturally for about 3 hours or the coating may be dried by placing the glass at ambient temperature of 80° to 125° C. If drying process is natural and if the coating, due to different climatic conditions, does not dry up even after about 3 Hrs, then it needs to be wiped off/ polished until it completely dries out.

Polishing

• The material once applied need to be polished in circular motion using soft cloth/tissue paper. This can be done by polishing/ rubbing in circular motions until it completely rubbed off/dries out. It is recommended to polish at least once to ensure quality of surface.

Test of Coating for water repellency

Once coated performance can be tested by pouring some water on the coated panels. If coating is done properly, water should form droplets and roll-off the glass surface and should not spread out into a uniform film.

The information contain here in is reliable and accurate the best of our knowledge. Technical services will provided for guidance when required. However conditions of uses and methods of application are beyond our control, no warranty is expressed or implied.

ALSO AVAILABLE CONSTRUCTION CHEMICALS LIKE CEMENT ADDITIVES, WATERPROOFING COATINGS,WATER REPPALENTS, CHEMICALS & ABRASION RESISTANCE FLOORINGS MATERIALS, EPOXY-POLYURETHANE RESINS, GOUTING MATERIALS, ANTI CORROSIVE PAINTS, FACADE PAINTS, SEALENTS AND ADHESIVES, RETRO REINFORCING REHABILITATION MATERIALS. FOR BUILDING, BRIDGE, DAM, CANAL, TUNNEL AND MARINE STRUCTURES, ETC

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**Test Result of
Super
Hydrophobic
Smart Glass
Coating No**

Test

Result

1	Contact Angle of water droplets	120°
2	Thickness of coating	53° A
3	Light Transmission (Transmitivity)	No Change
4	Abrasion Resistance	Improved
5	Optical Distortion	No Change
6	Secondary Image Separation	No Change
7	Identification of Colors	No Change
8	Cold Test	Pass
9	Bake Test	Pass
10	UV Radiation Test	Pass
11	Humidity Test	Pass
12	Cyclic Test	Pass
13	Water immersion test	Pass
14	Boil Test	Pass
15	Wiper Test	More than 330 hrs
16	Temperature withstand ability	Above 330°
17	Scratch Resistance	Improved
18	Thermal Insulation 'U' value	No change in UV value
19	Contact angle post abrasion test	No Significant change
20	UV Protection	600% Blocking UV Rays

