BOND –WR-09

WATER & OIL REPELLENT FOR NATURAL SYNTHETICS AND BLENDS

WR-09 is an aqueous fluorocarbon emulsion for durable water and oil repellent effects on natural, synthetics and their blends is formulated for WATER AND OIL REPPALLENT & 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, algee and fungus growth. It can be used for exterior and interior use also.

ADVANTAGES

- **Excellent water/oil repellency with air permeability on natural, synthetic & blended fabrics.**
- **Durable finish stable to several cycles of dry-cleaning & laundering.**
- **Soil & Stain release property. Mild softening effect of polyester & nylon fabrics.**
- **No detrimental influence on color fastness properties**
- **Stain proof finish resistant to staining by hydrophilic & oleophilic soils**
- **Gives air permeable, water and oil impermeable finish, also gives breathable finish**
- **Under acid conditions WR-09 is compatible with most of all common cationic and non-ionic textile.**
- **Water based formulations**
- **Heat is necessary for activation Durable finish stable to several cycles of dry-cleaning & laundering.**
- **Cross linking with surface.**
- **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.**
- **Transparent Nano coat.**
- **Very good temperatures resistance.**
- **Low Cleaning and Maintenance requirements.**
- **Auxiliaries. Incompatibilities may occur with anionic substances. In any case preliminary trials for checking the liquor stability are absolutely necessary.**

WHERE TO USE:-

- **Excellent water/oil repellency with air permeability on natural, synthetic & blended fabrics. Like Cotton, Polyester, Wool, PES, Nylon , Sports wear, mens suiting.**

METHOD OF USE:-

SURFACE PREPARATION:- (1) 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. The fabric to be treated shall be free from surface active substances to a large extent.
Residues from previous working processes such as preparations, dyeing auxiliaries as well as cleaning agents must be removed through an intensive rinsing process or post scouring with anionic

APPLICATIONS :-

The WR-09 It is applicable by padding, dipping & spraying methods. pH of bath 4.5 – 5.5 with acetic acid .

BOND	WR-09 (RTU) READY TO USE	WR-09 DILUTABLE
TYPE	AQUEOUS FLUOROCARBON EMULSION	AQUEOUS FLUOROCARBON EMULSION
Color	Translucent	Translucent
FLASH POINT	None	None
Ionicity	Cationic	Cationic
Dilution with DM water/	RTU	1:1

Distilled water / R.O. water		
METHOD OF USE	Brush/Roller/pump spray/ Trigger spray/ sponge/ Dipping or Washing machine.	Brush/Roller/pump spray/ Trigger spray/ sponge/ Dipping or washing machine.
FULL CURE TIME	Dry at 100-105ºC, cured in 160-165ºC for 1.1/2 to 3 minutes by hot air in ovens.	Dry at 100-105ºC, cured in 160-165ºC for 1.1/2 to 3 minutes by hot air in ovens.
COVERGE / Lit./ coat (Theoretically) **for FABRIC Approximate**	Depends on Type and thickness of fabrics. Average 50 grams per sq. meter	Depends on Type and thickness of fabrics. Average 50 grams per sq. meter
UV Resistance	Excellent	Excellent
Water and oil Repellency	After 2 Days Excellent	After 2 Days Excellent
STORAGE LIFE Months	6 Months	6 Months
PACKING LITERS	5, 30 & 50 Kg Carboys	5, 30 & 50 Kg Carboys

Curing

Dry at 100-105ºC, cured in 160-165ºC for 1.1/2 to 3 minutes by hot air in ovens.

Drying and fixation

Drying and fixation can be done in one step providing that drying unit is long enough. In order to achieve the total effect and permanency, the dried fabric must be exposed to a minimum temperature of 150°C for at least 1 1/2 min. Higher temperature decreases the fixation time. Preliminary trails have to be taken to fix a time for a particular quality of fabric.

Test of Coating for water and oil repellency

Once coated performance can be tested by pouring some water on the coated piece. If coating is done properly, water and oil should form droplets and roll-off the fabrics surface and should not spread out or penetrate into the fabrics.

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 REHABILATION MATERIALS. FOR BUILDING, BRIDGE, DAM, CANAL, TUNNEL AND MARINE STRUCTURES, ETC

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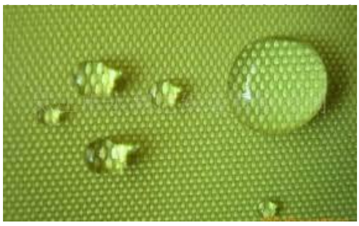

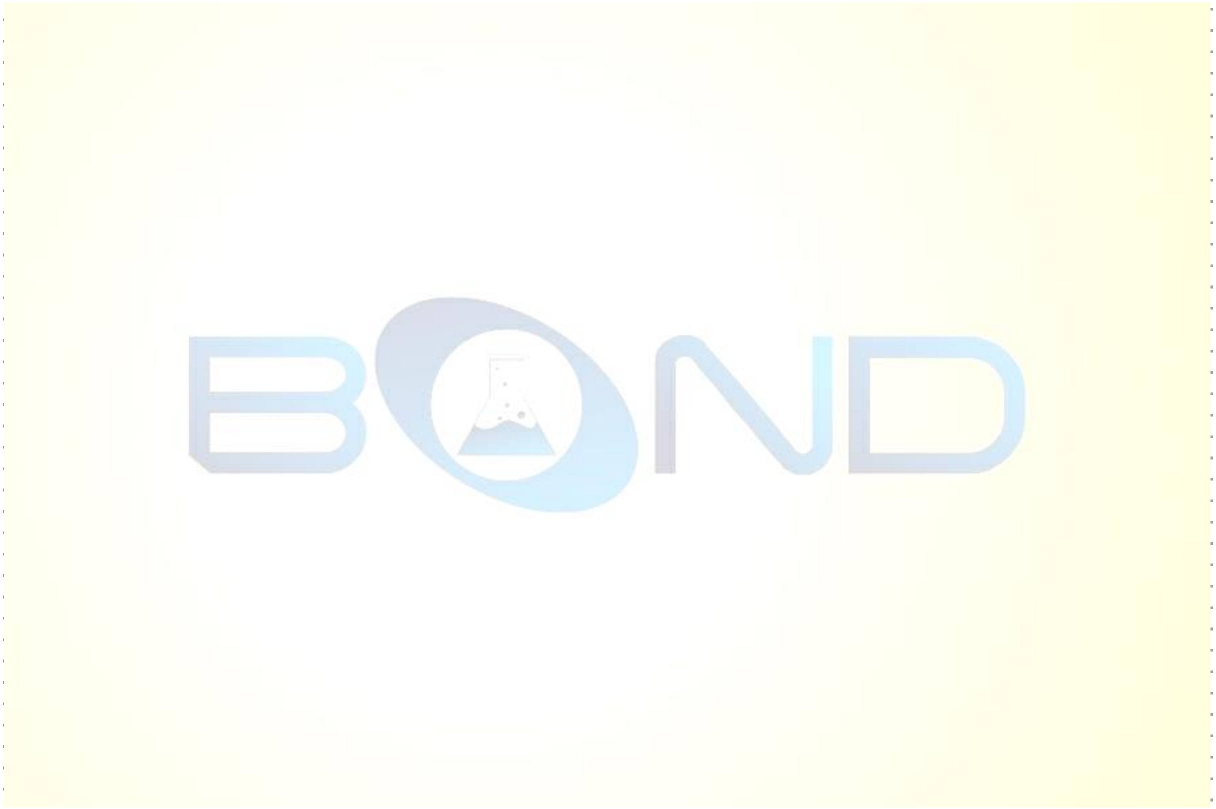
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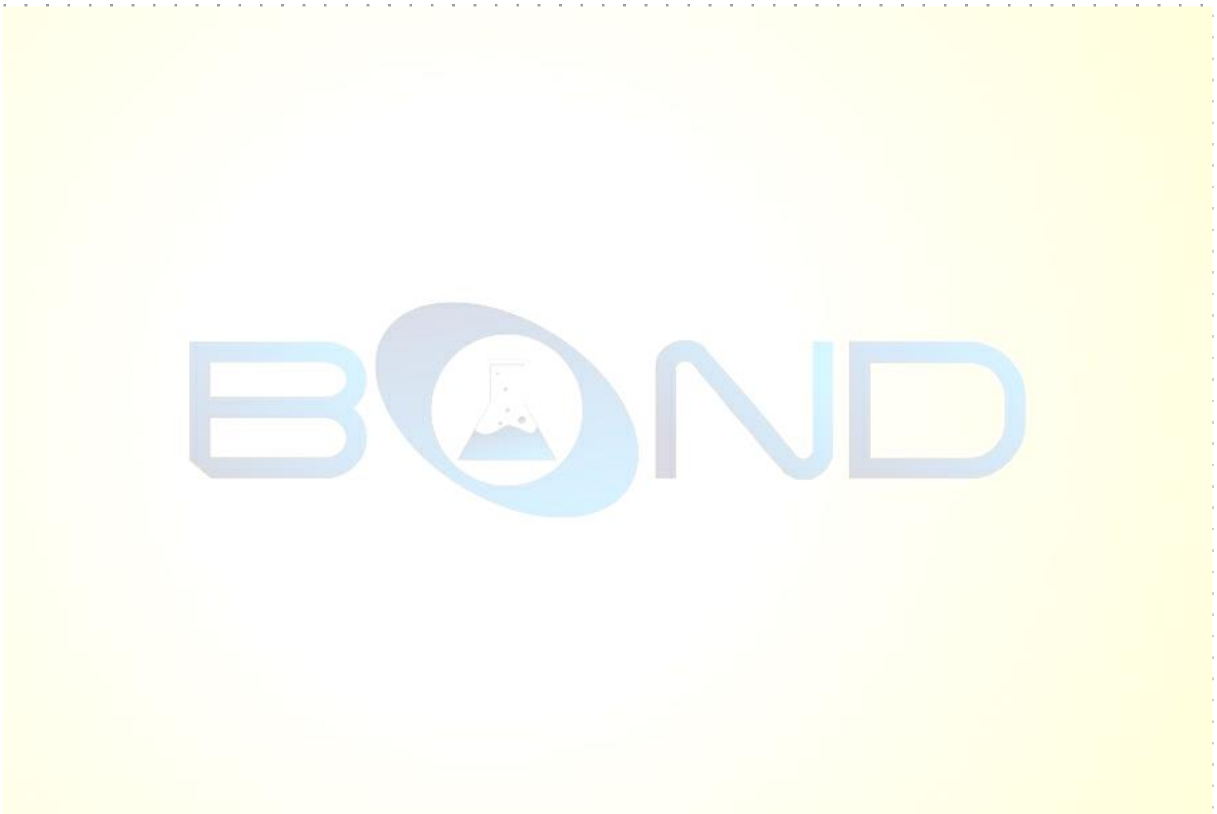
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