

# VETRO SOL

MANUFACTURER OF INDUSTRIAL PAINTS AND COATINGS

NANO PROTECTIVE COATINGS

PU COATINGS FOR GLASS AND INDUSTRIAL APPLICATION



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# VETRO SOL NANO PROTECTIVE COATINGS

## SUPER HYDROPHOBIC NANO COATING TECHNOLOGY

- PERMANENT CHEMICAL BONDING
- CHEMICAL RESISTENCE
- SUPER HYDROPHOBIC EFFECTS
- EASY TO CLEAN SURFACE
- UV AND CORROSION RESISTANCE
- ANTI GRAFFITI COATING

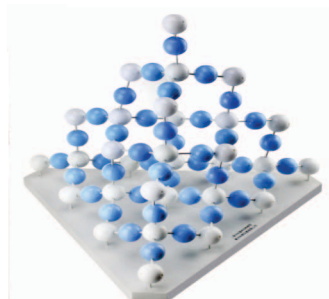
### What is Nano coating ?

Nano coating or nano sealing is the result of an application where nano structures build a consistent network of molecules on a surface. This Coating is made of Silicon Dioxide. Silica is the name given to a group of minerals composed of silicon and oxygen, the two most abundant elements in the earth's crust. It is composed of one atom of silicon and two atoms of oxygen resulting in the chemical formula  $\text{SiO}_2$ . So it can be said that this a most natural coating structure that protect your valuable investments and products from environmental corrosion, UV rays, oxidizations, tarnishing, chemicals like acid, alkali, bird drops, tree gums ,acid rain, Graffiti, Etc endless protection properties.

(Before Application of Coating on surface Proper Cleaning of surface is the Most Important Factor for Durability and Performance of the coating)

### Advantages of Nano Coating :-

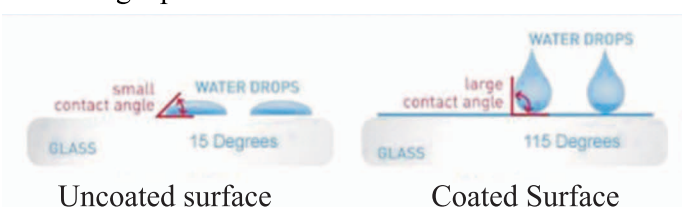
- Permanent coating - permanent protection
- Easy-to-clean surface enabled
- Anti-graffiti & anti-fingerprint
- Thermal resistance up to 600°C
- Excellent resistance of weathering
- UV resistance & xanthochromia proof
- Advanced chemical resistance
- Oxidation and corrosion resistance
- Outstanding durability
- Non-flammable after cured
- Room temperature curing
- Fluorine-free
- Low VOC



### How Nano Coating Works

In microscopic view surface is porous and rough. This makes it water loving or hydrophilic surface as Liquid drop spreading on a rough porous surface. Vetro Sol Nano coating is a type of silicon dioxide that is Pure Glass. The glass that you find in windows is not pure glass that is a mixture of various minerals. The molecules of silicon dioxide will fill the gap and pore of this rough surface and make it smooth. The covalent bonding of silicon dioxide on surface will last for long time.

**Covalent Bond:** A covalent bond means that the coating shares the electrons within the surface itself, thus becoming a part of the surface.



Coating Layer :  
Ultra thin Silicon film  
growth on surface and  
attach with the surface

Microscopic Ridges:  
Untreated surface  
as seen on a Microscop



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### Nano Coating Products

**CERA GLARE :- Very Stable and hard Silicon dioxide Based Protective coating.**

**USE OF PRODUCT :-** Ceramic Nano Protective and Very high Durable coating use for Air Crafts, Boat (Marin coating), Car Paints And Exterior Body, Alloy wheels, Plastics, Fiber, Metal Surface like MS, Brass, Copper, Silver , Aluminum etc . Almost all Visible surface can be covered with this Coating.

**HOW TO APPLY :-** Apply By Wiping on the Surface.

**ADVANTAGE :-**Permanent coating - permanent protection , Easy-to-clean surface enabled , Anti-graffiti & anti-fingerprint , Thermal resistance up to 600°C , Excellent resistance of weathering , UV resistance & xanthochromia proof , Advanced chemical resistance , Oxidation and corrosion resistance , Outstanding durability , Non-flammable after cured , Room temperature curing.

CERA GLARE coatings are a unique ceramic molecular compound formula (Nano-ceramics), form transparent, very stable silicone layers, thus making them an ideal basis for multi functional coating systems that is a anti corrosive, scratch-resistant, dirt-repellent, UV-protective coating hydrophobic coating.

**RECOMMENDED APPLICATION :-**

- Painted metal surfaces
- Trains
- Buses
- Metal facades and shutters
- Containers, trailers, trucks etc heavy transportation vehicles.
- Car body paint and under body coating
- Pipe line coating
- Anti corrosive coating



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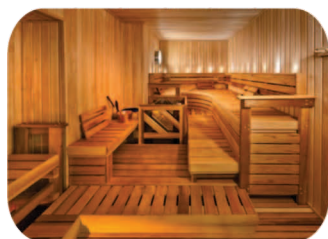
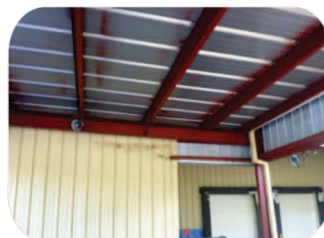
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**HOW TO APPLY :-** Apply By Spray on the Surface.

**ADVANTAGE :-**Permanent coating - permanent protection , Easy-to-clean surface enabled , Anti-graffiti & anti-fingerprint , Thermal resistance up to 600°C , Excellent resistance of weathering , UV resistance & xanthochromia proof , Advanced chemical resistance , Oxidation and corrosion resistance , Outstanding durability , Non-flammable after cured , Room temperature curing.



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### Nano Coating Products

#### VETRO SHIELD :- Hydrophobic Nano Glass Coating( Easy To Clean Surface)

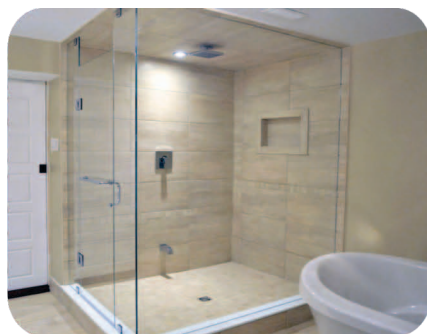
**USE OF PRODUCT :-** Hydrophobic coating for Glass, Ceramic, Porcelains, Tiles, Stone, Kitchen tiles Etc.

**HOW TO APPLY :-** Apply By wiping on the Surface.

**ADVANTAGE :-** VETRO SHIELD is a protective coating that chemically bonds to the surface, creating a non-stick barrier that resists corrosion, soap scum and staining. While cleaning is made easier and less frequent, and no need of any hazardous chemicals.. VETRO SHIELD is completely invisible and does not change or alter the appearance of the surface. VETRO SHIELD provides both hydrophobic and oleophobic (water and oil repellence) protection, reducing both staining and etching that often forms in shower recesses, kitchen splash backs, high-rise buildings, and other areas where glass is subjected to harsh conditions. VETRO SHIELD molecule is highly resistant to chemical breakdown by ultraviolet light giving it long term stability. VETRO SHIELD will eliminate the need to use harsh and often toxic cleaners needing only a simple wipe with a micro fibre cloth and water or a mild detergent to keep surfaces clean VETRO SHIELD is also useful on Ceramic tiles, Porcelain ware, Stones like marble and granites etc All Surfaces.

#### DURABILITY

VETRO SHIELD For Glass chemically bonds with the glass substrate and forms a permanent protection that can only be removed by abrasion and/or removal of the top layer of the glass surface .VETRO SHIELD is resistant to UV degradation and as there is no film formed, no coating break down will occurs. But mostly life on new glass is up to 10 year plus and on old glass 3 to 5 years.



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### Nano Coating Products

#### **SOLAR SHIELD :- Hydrophobic Nano Coating For Solar Panels( Easy To Clean Surface)**

**USE OF PRODUCT :-** Hydrophobic coating for Solar Glass Panels

**HOW TO APPLY :-** Apply By wiping on the Surface.

**ADVANTAGE :-**SOLAR SHIELD for Solar Glass is a protective coating that chemically bonds to the surface, creating a non-stick barrier that resists corrosion, soap scum and staining. Dust, Mud, environment pollution. While cleaning is made easier and less frequent, the need to clean is not eliminated. SOLAR SHIELD is completely invisible and does not change or alter the appearance of the surface. SOLAR SHIELD provides both hydrophobic and oleo phobic (water and oil repellence) protection, reducing both staining and etching that often forms ON solar glass, and other areas where solar glass is subjected to harsh conditions. SOLAR SHIELD molecule is highly resistant to chemical breakdown by ultraviolet light giving it long term stability. SOLAR SHIELD will eliminate the need to use harsh and often toxic cleaners needing only a simple wipe with a micro fiber OR any Soft cloth and water or a mild detergent to keep surfaces clean.

#### **FABRIC SHIELD :- Super Hydrophobic Nano Coating For Fabric or Textile**

**USE OF PRODUCT :-** Super Hydrophobic coating for Fabrics like Daily Ware, Sofa and Chairs,Curtains, Pillow, Carpet etc all almost all type of Textiles.

**HOW TO APPLY :-** Apply By Spray on the Surface or By Dip Coating

**ADVANTAGES :-** FABRIC SHIELD for fabric is a protective coating that chemically bonds to the surface, creating a non-stick barrier that resists corrosion, and staining. Dust, Mud, environment pollution. While cleaning is made easier and less frequent, the need to clean is not eliminated FABRIC SHIELD completely invisible and does not change or alter the appearance of the surface. FABRIC SHIELD provides both hydrophobic and oleo phobic (water and oil repellence) protection.



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### Nano Coating Products

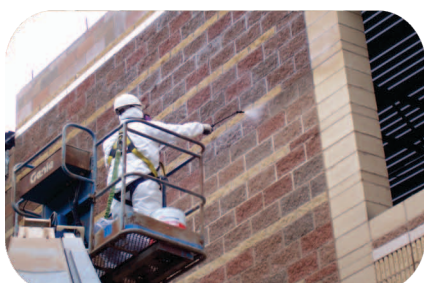
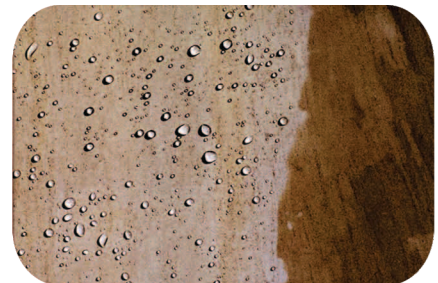
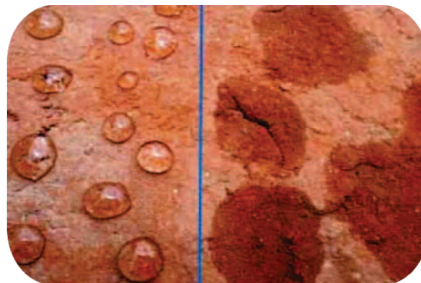
**AQUA SHIELD:** - Super hydrophobic Nano Coating for Cement and masonry surface and Clay tiles.

**Use of Product:** - Water Repellant Coating for masonry concrete having open bricks ABS sheet, Terra cotta and Mangalore Tiles, Sand stone, plastered surface.

**HOW TO APPLY :-** Apply By spray with Spray gun on the Surface.

**ADVANTAGE :-Silicon Base Transparent Water Repellent Coating (AQUA SHIELD)** is a very economical, solvent soluble of active silicone designed to impart water repellence of marble and Granite surface and stone. **AQUA SHIELD** reduces maintenance cost with long term improved resistance to tropical weather. After application **AQUA SHIELD** reacts with moisture and carbon dioxide in the air to form an insoluble, invisible repellent Silicone film within 24 hrs.

- AQUA SHIELD treatment is effective on all types of masonry having open bricks Abs sheet, Terra cotta and Mangalore Tiles, Sand stone, plastered surface. On the treated surface, cement based or oil based paints may Be applied..
- AQUA SHIELD keeps water on the run by forming an invisible Silicon Surface on the masonry wall. Collection of dust on the wall can be easily washed off.
- AQUA SHIELD is ready to used brush or spray directly on surface.
- AQUA SHIELD Preserve original colour or texture of treated surface.
- AQUA SHIELD does not clog the pores of surface, so allows surface to breath.



**GO GREEN USE NANO PROTECTIVE COATINGS**

# VETRO SOL SOLVANT BASE GLASS COATINGS

## HIGH PERFORMANCE 2 K PU AND STOVING GLASS COATING

### Glass Coating Products

#### 2K PU paints and Lacquer / Stoving Paints and Lacquer

- Opaque colour for glass (Back painted glass colour)
- Metallic colour for glass
- Sparkle colour for glass
- Transparent colour for glass
- Air brushing dye colour for glass
- Pri coat and Post Coat for coating by digital printing machine
- Clear Lacquer
- High Temperature ceramic frit colours
- Glass cleaning agent as Pri treatment before coating glass
- Glass primer and Bonding Agent

**Use of Product** :- Use for Decorative coating on Glass surface. Some popular application like back painted Glass use for kitchen , partitions, wardrobe, ceiling, Mirrors, lobby, Balustrades , offices, malls, hospitals, Airports, Hotels, Schools, swimming Area, Digital Printed Glass, Ceramic Fretted Glass Etc everywhere you can see colourfull Glass. Also use For Coating on Glass Bottles, decorative Glass objects and Crockaries.

**HOW TO APPLY** :- Apply By spray with Spray gun on the Surface.





# VETRO SOL SOLVENT BASE INDUSTRIAL COATINGS

## HIGH PERFORMANCE 2 K PU AND STOVING INDUSTRIAL COATING

### Industrial Coating Products

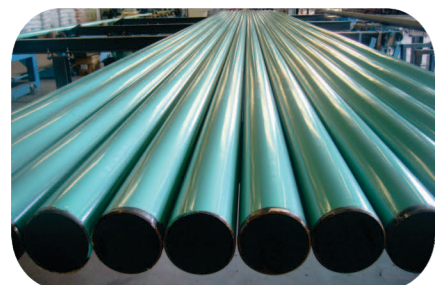
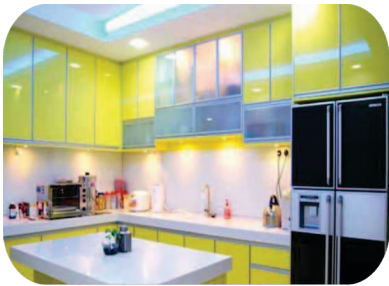
**2K PU paints and Lacquer / Stoving Paints and Lacquer**

**Opaque Pigmented Colour / Metallic colours / Sparkle Colours / Matt Finish  
Lacquer / High Gloss Clear Lacquer / Glossy Lacquer**

**Use of Product** : - Use for Decorative coating and Protective Coating.

**Application on Metal , wood, Plastics, fiber, Acrylic, FRP, Poly carbonate Etc**

**HOW TO APPLY** :- Apply By spray with Spray gun on the Surface.



# VETRO SOL SOLVANT BASE COATINGS

## HIGH PERFORMANCE 2 K PU AND STOVING PAINTS & COATING

### Glass Coating Products

### Digital Printing Solution

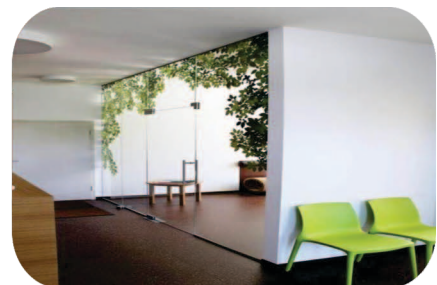
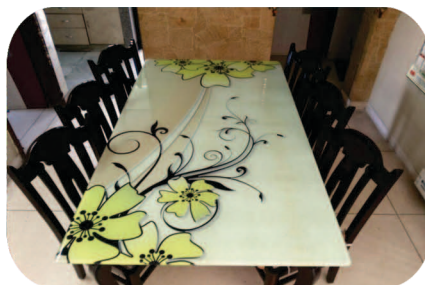
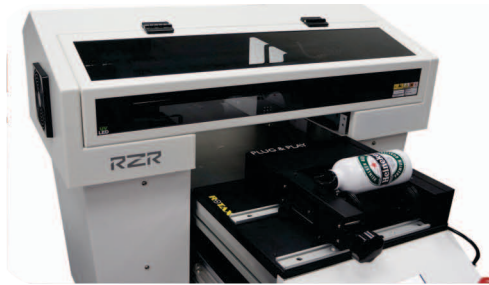
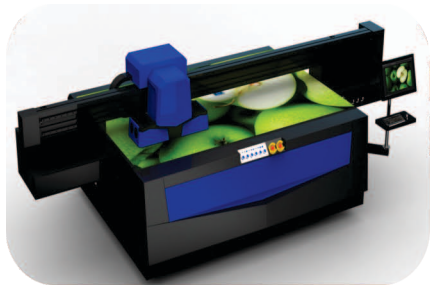
### Pri Coat and Post coat for Digital Printing

Use for proper bonding of Digital print on glass and also Protect Print from damage. Printing layer will be Sandwich in Between Pri Coat and Post Coat.

- Pri coat and Post Coat for coating by digital printing machine
- Clear Lacquer
- Glass cleaning agent as Pri treatment before coating glass
- Glass primer and Bonding Agent

**Use of Product** :- Use for Decorative coating on Glass surface. Some popular application like back painted Glass use for kitchen , partitions, wardrobe, ceiling, Mirrors, lobby, Balustrades , offices, malls, hospitals, Airports, Hotels, Schools, swimming Area, Digital Printed Glass, Ceramic Fretted Glass Etc everywhere you can see colourfull Glass. Also use For Coating on Glass Bottles, decorative Glass objects and Crockaries.

**HOW TO APPLY** :- Apply By spray with Spray gun on the Surface.



# VETRO SOL SOLVANT BASE COATINGS

## HIGH PERFORMANCE 2 K PU AND STOVING PAINTS & COATING

### Hydro Chrome Products

#### Base Coat, Adhesion Coat, Top coat Glossy Lacquer and Inks for Hydro Chrome

Use for proper bonding of Hydro Chrome on various surface and also Protect Hydro Chrome from damage. Hydro Chrome will be Sandwich in Between Base Coat and Adhesion Coat. And Desire shade of Chrome can be obtained by using Inks. Like Silver Chrome, Golden Chrome, or pink chrome or green or blue chrome finish any shade of Chrome can be made with Inks.

- **Base Coat for HydroChrome**
- **Adhesion Coat for HydroChrome**
- **Top Coat Glossy Protective coating for HydroChrome**
- **Tinting Inks**

**HOW TO APPLY** :- Apply By spray with Spray gun on the Surface.



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## **NANO COATING PRODUCTS**

CERAMIC NANO COATING  
GLASS NANO COATING  
FABRIC NANO COATING  
SOLAR NANO COATING  
NANO COATING FOR MASSONARY SURFACE  
ANTI CORROSIVE NANO COATING  
ANTI GRAFFITI NANO CATING

CERA GLARE  
VETRO SHIELD  
FABRIC SHIELD  
SOLAR SHIELD  
AQUA SHIELD  
CERA GLARE ECO  
CERA GLARE ECO

## **GLASS COATING PRODUCTS**

BACK PAINTED GLASS COLOURS - OPAQUE , SPARKLE AND METALLIC  
AIR BRUSHING COLOUR FOR GLASS  
TRANSPERANT CLEAR LACQUER  
STOVING GLASS PAINTS AND LACQUER

## **INDUSTRIAL PAINTS AND COATINGS**

2K PU PAINTS AND LACQUER - OPAQUE , SPARKLE AND METALLIC  
HIGH GLOSS PU CLEAR  
STOVING PAINTS AND LACQUER

## **UV DIGITAL PRINTING SOLUTION**

PRI COAT AND POST COAT FOR DIGITAL UV PRINTING

## **HYDRO CHROME PRODUCTS**

BASE COAT , ADHESION COAT , TOP COAT GLOSSY LACQUER AND INKS

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