

Nanovere Coating Brands

Nano-Clear[®]

Nano-Clear Coatings significantly reduce costly repainting cycles of high-value painted assets by **2X-3X** (10+ Year Performance). Reduced repaint cycles means less paint usage, reduced down-time, reduced labor and significantly reduced corrosion and VOC released into the environment. Nano-Clear Coatings dramatically improve corrosion resistance, scratch, abrasion, chemical, and long-term UV resistance of painted assets.

Nano-Clear Coatings reduce surface maintenance of painted assets by 50%. Nano-Clear Coatings are designed to be applied as a clear top coatings directly over epoxy and polyurethanes paints. Nano-Clear Coating are designed to be used in conjunction with Nano-Clear Functional Additives including NCIM Matting Additive, NCFP Easy Clean Additive and NCA Accelerator to speed cure response..

Vecdör

Vecdor Nanocoatings were developed specifically for the automotive OEM, automotive aftermarket, high throughput components, aerospace and industrial markets. Vecdor Nanocoatings provide extreme resistance to scratching, chemicals, corrosion, weathering and gloss retention. Vecdor Nanocoatings are designed to be used in conjunction with Nano-Clear Functional Additives including NCIM Matting Additive, NCFP Easy Clean Additive and NCA Accelerator to speed cure response..

Nano-Clear Coatings Brand / Portfolio

➤ Nano-Clear NCI for Industrial Coating

- Aboveground Storage Tanks, Pipeline, Bridges, Ships, Lifeboats
- Agriculture Equipment, Fleet Vehicles, Cranes, Aircraft, Buildings



➤ Nano-Clear NC 40 Automotive Coating

- Automotive (full car), Semi-Trucks, Agriculture Equipment, Fleet Vehicles..



➤ Nano-Clear NC 15 Stone Coating

- Ceramic, Porcelain, Granite, Travertine & Concrete Sealer

➤ Nano-Clear NCIF 400 High Gloss Waterproof Coating

- Fleet Vehicles (UPS), Concrete Structures, Cement Trucks, Pools...



➤ Nano-Clear NCI UVX High Gloss, High Solids Clear

- Raytheon, Pultruded Composites, Military, Production Environments

➤ Nano-Clear NCI Matte Finish Coating (SuperCARC)

- Global Military Assets (Tanks, Trucks, Fuel Storage Tanks, Ships, Aircraft, Building Structures, Concrete Flooring, Epoxy Flooring...)



Nano-Clear Functional Materials

Nano-Clear Functional Additives were specifically developed to expand the application potential of Nano-Clear Coatings. Nano-Clear Functional Additives can be mixed and blended together with Nano-Clear to create a multitude of new coating formulation combinations.

➤ **Nano-Clear NCIM Functional Matting Additive**

- Used with Nano-Clear Coatings to flatten and impart scratch resistance.

➤ **Nano-Clear NCA Accelerator**

- Used within Nano-Clear Coatings to speed up cure time.

➤ **Nano-Clear NCFP Easy Clean Additive**

- Used within Nano-Clear Coatings to provide water repellency, anti-ice and anti-graffiti properties.

➤ **Nano-Clear VV-200 Surface Treatment for Metal**

- Bonds directly to metals to provide a molecular bridge for Nano-Clear Coatings.

Nano-Clear[®]

Vecdor Coatings Brand / Portfolio

➤ **Vecdor VV78 – 1K High Bake Gloss Clear**

- Auto OEM Finishes, Auto Parts, Components, Golf Club Heads,,,



➤ **Vecdor VV78 – 1K High Bake Matte Finish Clear**

- Auto OEM Finishes, Auto Parts, Components, Golf Club Heads...

➤ **Vecdor VV39 – 1K High or Low Bake / Gloss & Matte Finish Clears**

- Auto OEM Finishes, Auto Aftermarket Parts & Components...



➤ **Vecdor VX-50 2K High Bake or Low Bake / Gloss & Matte Finish Clears**

- Auto OEM Finishes, Auto Aftermarket Parts, Components...

➤ **Vecdor VX-50 2K High Bake or Low Bake Anti-Graffiti Gloss Clear**

- Auto OEM Wheels, Auto Aftermarket Wheels, Trains, Buildings..



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Nanovere Developmental Pipeline

➤ Nano-Clear Pigmented Top Coatings – 1K

- Automotive Aftermarket Panels, Fleet Vehicles, Components, Parts, Concrete Flooring, Epoxy Flooring, Agriculture Equipment, O&G Pipeline, Ships, Aircraft...

➤ Nano-Clear Graphene Based Coatings – 1K

- Low Surface Energy, High Hardness, Extreme Corrosion Resistance (20K+ hours)

➤ Vecdor Water Borne Coatings - 1K (Green Technology)

- Consumer (Aerosol Can), Concrete Structures & Flooring, Wood Decks...



➤ Vecdor Water Borne Coatings - 2K (Green Technology)

- Auto Aftermarket Car Panels, Components, Industrial Equipment, Flooring...

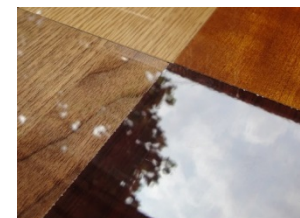
➤ Vecdor Powder Coatings – 1K Bake

- Automotive OEM Wheels, Components, Panels, Appliances, Furniture, Equipment...



➤ Vecdor UV Cure Wood Coatings – 1K

- Wood Flooring, Birch Plywood Panels, Wood Edge Seal...



Competitive Analysis

| Property | Method | Nano-Clear® NCI Coating | Axalta IMRON® 2.1 HG-C | Axalta IMRON® 3.5 HG-D | PPG Amercoat PSX® 700 |
|--|-------------------|--|--|--|--|
| Mfg. Recommended Use | | Newly Painted or Sanded Oxidized | Newly Painted Only | Newly Painted Only | Newly Painted Only |
| Polymer Chemistry | | Nanostructured Polyurethane / Polyurea Hybrid | Polyurethane Copolymer | Polyurethane | Epoxy Polysiloxane Hybrid |
| Mixing Ratio | Ratio | 1K - no mixing | 1K – no mixing | 2:1 Mix Ratio | 4:1 Mix Ratio |
| Recommended Dry Film Thickness (mils) | ASTM D5796 | 2 mil | 3 mils | 5 mils | 5 mils |
| Pencil Hardness | ASTM D3363 | 4H - 7H | H | F | N/A |
| Pendulum Hardness (Persoz) | ASTM D4366 | 220 | N/A | 24 | N/A |
| Abrasion Resistance (CS-17, 1 kg, 1000 cycles) | ASTM D4060 | 8.4 mg loss | N/A | N/A | 53 mg loss |
| Impact Strength (kg-cm) | ASTM D2794 | > 140 | > 160 | > 100 | N/A |
| Water Immersion Test | ISO 2812-2 | Pass | Pass | Pass | Pass |
| QUV Resistance (> 1500 hours) | ASTM D4587 | 100% | 94% | 90% | 50% |
| Xenon WOM (> 2000 hours) | ASTM G155 | 99% | N/A | N/A | N/A |
| MEK Resistance | ASTM D4752 | >1500 | >200 | >100 | >100 |
| Salt Spray (5000 hours) | ASTM B-117 | No rust, no blisters. | No rust, no blisters. | No rust, no blisters. | No rust, no blisters. |
| DMTA – Crosslink Density | XLD (X103 mol/m3) | 2.17 | N/A | N/A | N/A |
| Competitive Commentary | | <i>Nano-Clear has been awarded the NACE Innovation of the Year Award for Corrosion, F&S Technology Leadership Award and PaintSquare Top Product Award for Steel.</i> | <i>NCI has 4X better scratch resistance, but similar UV resistance to Imron.</i> | <i>NCI has 5X better scratch resistance, similar UV resistance + 50% less DFT.</i> | <i>NCI has 6X better abrasion resistance, 50% better UV resistance + 50% less DFT.</i> |