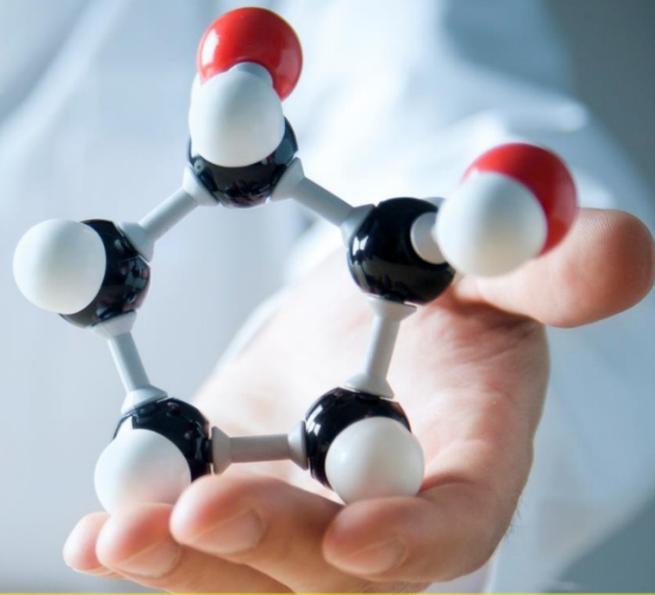


NANOMYTE®

- ✓ **Topcoats**
- ✓ **Primers**
- ✓ **Pretreatments**

Anticorrosion Paints & Coatings





THE NANOMYTE® ADVANTAGE FOR METAL FINISHING

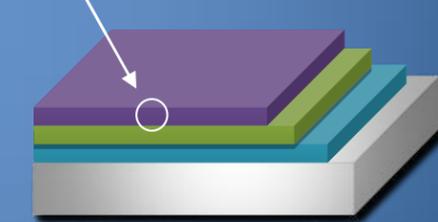
NANOMYTE paints and coatings are an innovative drop-in solution for your metal finishing applications, whether it's preserving aesthetic appearance or maintaining structural integrity. Formulations apply easily to metal substrates by immersion, spray, wipe or brush, even in the field, without special equipment or surface preparation.

Scratch in Topcoat



Surface scratch, before self-healing

Scratch Healed



Surface, after self-healing

Self-Healing Provides Active Corrosion Protection

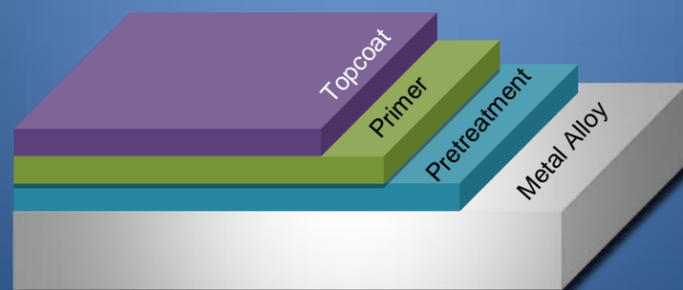
NANOMYTE® paints and coatings are engineered to be self-healing. That means the paint or coating can repair itself if damaged thus providing *active corrosion protection*. For example, if a paint layer or coating surface is marred or scratched, it exposes the underlying bare metal to corrosive liquid

or gas, which leads to rapid corrosion. Through different self-healing mechanisms, the NANOMYTE coating layers provide additional protection to the metal. NANOMYTE self-healing coatings represent a new class of easy and safe to use coatings that provide exceptional durability.

Chromate-Free Breakthrough

NANOMYTE paints and coatings contain no chromate, but work as well as or better than chromate products to inhibit corrosion of steel, aluminum, magnesium and copper alloys. Since chromate (hexavalent chromium) is known as an environmentally hazardous chemical and carcinogen, it is no longer acceptable for use in the majority of industrial, commercial and military applications. Until now, achieving the required degree of corrosion resistance without the use of chromate has been a formidable challenge.

The NANOMYTE line of chromate-free pretreatments, primers and topcoats represent a breakthrough in providing active corrosion protection comparable to chromate.



Typical metal coating system

NANOMYTE TECHNOLOGY BENEFITS

The key to the development of NANOMYTE paints and coatings has been our ability to understand corrosion mechanisms and characterize bulk and surface metal properties at the nanometer scale. By controlling the behavior of ions and molecules, the coatings slow down or stop the electrochemical reactions that adversely alter the appearance of metals or compromise structural integrity due to corrosion.

The chemistry of our formulations and the structure of our coatings enable the same active corrosion protection enabled by chromate. The result is measured in terms of laboratory and field performance, ensuring corrosion protection that meets or exceeds industry or military standards.

- **WIDE USAGE** – Compatibility with most structural metals
- **HIGH PERFORMANCE** – Long lasting corrosion protection
- **GREEN CHEMISTRY** – Complies with environmental, health and safety standards
- **SMART FUNCTIONALITY** – System capable of repairing itself when damaged
- **COST SAVINGS** – Less maintenance, materials and labor
- **IMPROVED PRODUCTIVITY** – May require less physical preparation of the metal surface



NANOMYTE[®]

Anticorrosion Paints & Coatings



Product	Substrate	Matrix	Features	Benefits
PRETREATMENTS				
PT-10	Aluminum Steel	Waterborne	<ul style="list-style-type: none"> Improved corrosion resistance Thermal or ambient cure 	<ul style="list-style-type: none"> Longer part life
PT-20	Steel	Waterborne	<ul style="list-style-type: none"> Less surface preparation & grit blasting required prior to painting 	<ul style="list-style-type: none"> Lower maintenance costs
PT-30	Copper	Waterborne	<ul style="list-style-type: none"> Improved corrosion resistance Ambient cure 	<ul style="list-style-type: none"> Longer part life
PT-40	Magnesium	Waterborne	<ul style="list-style-type: none"> Improved primer adhesion 	<ul style="list-style-type: none"> More durable coatings
PT-60	Magnesium	Waterborne	<ul style="list-style-type: none"> Self-healing combined with improved primer adhesion 	<ul style="list-style-type: none"> Active corrosion protection
PT-100	Zinc-plated & Galvanized Steel	Waterborne	<ul style="list-style-type: none"> Improves adhesion in conjunction with TC-5001 	<ul style="list-style-type: none"> Minimizes white and red rust formation
PRIMERS				
PM-101	Steel	Solventborne	<ul style="list-style-type: none"> Superior corrosion resistance Excellent adhesion 	<ul style="list-style-type: none"> Avoids blistering High elasticity
PM-102	Steel	Solventborne	<ul style="list-style-type: none"> Applicable up to 200µm in a single coat 	<ul style="list-style-type: none"> Good barrier protection Bridges large cracks
TOPCOATS				
TC-500	Steel Aluminum	Solventborne	<ul style="list-style-type: none"> Superhydrophobic coating 	<ul style="list-style-type: none"> Seals surface and repels water
TC-800	Steel Aluminum Magnesium Titanium	Waterborne	<ul style="list-style-type: none"> Clear or colored coating Gloss or matte finish 	<ul style="list-style-type: none"> Single coat corrosion protection
TC-1001	Steel Aluminum	Solventborne	<ul style="list-style-type: none"> Self-healing clear coat 	<ul style="list-style-type: none"> Easy scratch repair
TC-2001	Steel	Solventborne	<ul style="list-style-type: none"> Acid resistant coating 	<ul style="list-style-type: none"> Longer part life
TC-3001	Steel Aluminum	Solventborne	<ul style="list-style-type: none"> Penetrating formula encapsulates metal Applied directly to coating surface 	<ul style="list-style-type: none"> No grit blasting required to remove rust Lasts 10-15 years in severe & unwashed environments
TC-4001	Steel Aluminum	Solventborne	<ul style="list-style-type: none"> Thin, hard barrier coating Bonds to bare, pretreated or painted metal surfaces 	<ul style="list-style-type: none"> Superior corrosion protection Easy to apply High coverage
TC-5001	Zinc-plated & Galvanized Steel	Solventborne	<ul style="list-style-type: none"> Thin, hard barrier coating Bonds to zinc or pretreated surfaces (PT-100) 	<ul style="list-style-type: none"> Excellent cyclic performance Easy to apply High coverage