

# Sanchem Inc

# NO-OX-ID A-SPECIAL WW

Rust Preventive Coating & Lubricant  
A RoHS & NSF Compliant coating

## THE ORIGINAL RUST PREVENTIVE STOPS CORROSION BEFORE IT CAN START

For over 80 years, NO-OX-ID rust preventives have successfully protected and preserved steel surfaces of water tank interiors, water filtration plants, sewage plants, water distribution systems and power plants throughout the world.

Since 1948, NO-OX-ID rust preventives have been a recognized coating system, by the American Waterworks Association (AWWA), for painting the interiors of steel water storage tanks. The United States Environmental Protection Agency (EPA) and the National Sanitation Foundation (NSF) Standard 61 approved NO-OX-ID coatings

NO-OX-ID protective coating requires minimal surface preparation before application. This product is the long term solution to corrosion problems due to water, salt and other corrosive environments. NO-OX-ID A-Special WW is a heavy duty cosmoline type rust preventative for use on structural steel, in acid pickling areas, brine tanks, inside water tanks, steel cables, bridges and cofferdams. Use NO-OX-ID rust preventatives whenever a heavy duty rust preventive or anti condensation coatings are required.

**ONE-COAT POSITIVE PROTECTION**

**NO-OX-ID**

**RUST PREVENTIVE PROTECTIVE COATING—NOT JUST A PAINT**  
—PROTECTS WITH ELECTRO CHEMICAL ACTION—LESS EXPENSIVE TO BUY—LESS EXPENSIVE TO APPLY—RESISTS CRACKING, CHIPPING, PEELING.

**USES:** Specifically designed for maintenance application where severe corrosive atmosphere, high humidity, corrosive fumes, brine, severe weather, or even immersion in water exists. NO-OX-ID may be used to coat all exposed plant piping, steel joints, steel structural work, ducts, gutters and down-spouts. Ideal for use as a filler between all metal-to-metal or metal-to-concrete or brick surfaces, serves as a seal against moisture and corrosive fumes.

**DESCRIPTION:** NO-OX-ID is a heavy pigmented paste-like consistency which can be thinned with any common solvent. Evaporation of the solvent leaves a firm but "elastic" coating. The coating will retain its plastic characteristics throughout its lifetime and never dries completely hard below the finished surface.

Applied easily with either brush or spray, NO-OX-ID provides one-coat, dry-to-the-touch finish which gives years of protection with both a mechanical film and built-in chemical corrosion inhibitors, which prevent rust underneath the surface.

**PREPARATION OF METAL SURFACE:** Dirt, mill scale, chemical deposits, rust, tar residues, and old paint should be removed from the surface to be coated by wire brushing. The surface should be dry and, in all instances, as clean as possible. However, NO-OX-ID gives excellent service, even when applied to metal where no excessive cleaning precautions have been taken.

**See the difference**

**See the difference**

**ORDINARY PAINT**  
(with the soft, permeable resin)

**NO-OX-ID**  
(with the hard, elastic resin)

Even the best paints dry clear through. As metal expands and contracts, naturally, the stiff, brittle, mechanical paint film eventually forms pin holes... cracks and "alligators" ... permits rust to form under the surface. Paint then chips, peels, and falls off.

NO-OX-ID forms a dry-to-the-touch finish only on the outside. Underneath, the coating remains slightly "plastic" like greasing putty on the metal surface, even after years of service. Cracks and pin holes never penetrate to metal. Built-in chemical inhibitors, always in contact with the metal, prevent "under surface" rust.

**NO-OX-ID® PROTECTIVE COATINGS FOR ALL METAL SURFACES**

- NO-OX-ID "A SPECIAL" — Economical, soft grease type rust preventive containing solvent for easy application. Imparts a thick, semi-transparent, non-drying film which retains its protective properties indefinitely. Applied by brush or spray.
- NO-OX-ID "A" — Non-solvent, heavy grease-type, hot application rust preventive. Imparts a thick amber colored, semi-transparent non-drying film... resistant to high temperatures, high humidity and corrosive atmospheres.
- NO-OX-ID "E" — Non-solvent, non-drying viscous protective oil coating. Protects metal surfaces at temperatures to 400°F. Recommended for bar stock, chain and cables, dies, gears, pump parts, springs, sprockets, rigging, etc.
- NO-OX-ID "GGZ" — Non-oxidizing moisture-resistant highly durable soft grease material that prevents cross threading, cracking or metal pipe joints from corroding. Recommended for systems carrying steam, gas, water or ammonia. Does not harm galvanized pipe — easily applied at room temperature.

Available in pints, quarts, gallons, 5-gallon pails, 20 gal drums, 55 gal drums.

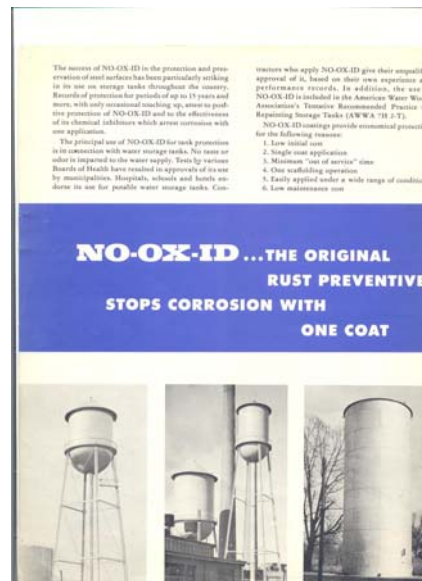
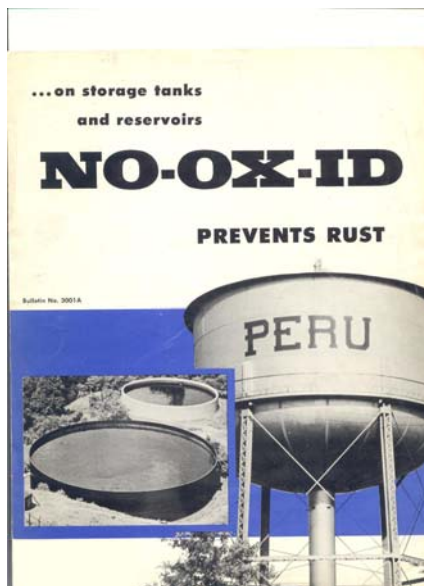
**MANUFACTURED BY**  
**SANCHEM, INC.**  
MEMBER OF SATELL CHEMICAL COMPANY  
1600 SOUTH CANAL STREET • CHICAGO, ILLINOIS 60616 • TELEPHONE 312/733-6100  
FAX 312-733-7432  
CABLE: SANCHEM

DISTRIBUTED BY:

**ECONOMICAL:** Sanchem's NO-OX-ID is economical and will save you and your water system time and money. With Sanchem's NO-OX-ID, you will save money because of reduced labor costs due to less intensive surface preparation, single coat application and minimal downtime of your water system. After a minimum drying time of 24 hours, the tank can be thoroughly flushed with potable water then disinfected in accordance with AWWA D-105. Therefore, tanks can be put back into service 24 hours after the NO-OX-ID is applied. Some epoxy and vinyl coatings require 7-10 days to cure.

**VOC's:** There are new Federal and State regulations regarding maximum amounts of VOC's (Volatile Organic Carbons) allowed in coatings. Most of our NO-OX-ID products contain less than 7% of the California rule 66 solvent and many of our products contain no solvent at all. Most bitumastic coatings contain over 50% of toxic, flammable, aromatic hydrocarbons solvents that have VOC's.

NO-OX-ID rust preventatives are formulated with a proprietary blend of waxes, metal wetting agents and corrosion rust inhibitors which penetrate into the pores of the metal preventing under film corrosion. No taste or odor is imparted to the water supply. For water storage tanks, we recommend coating thickness of 20-30 mils. Contractors who apply NO-OX-ID rust preventative coating usually give a 3-5 year unconditional performance guarantee. How can they do this? They have over 60 years of first hand experience using NO-OX-ID's and this product's performance record means that there is no risk for them!



NO-OX-ID barrier coatings provide excellent corrosion control in just one coating application. This means that the coatings applicators sets up scaffolding and apply paint less times so the job should cost less. This also means in small towns where you run your water supply from a safely valve when the tank is being painted your system will be under stress for less time. This corrosion resistant product requires only minimal surface preparation and it can be easily applied under a wide range of conditions. Twenty four hours after application, the tank coating can be flushed with potable water then disinfected in accordance with AWWA D-105. (NOTE: If while you are applying this surface coating to your town's water tower there is an emergency need for

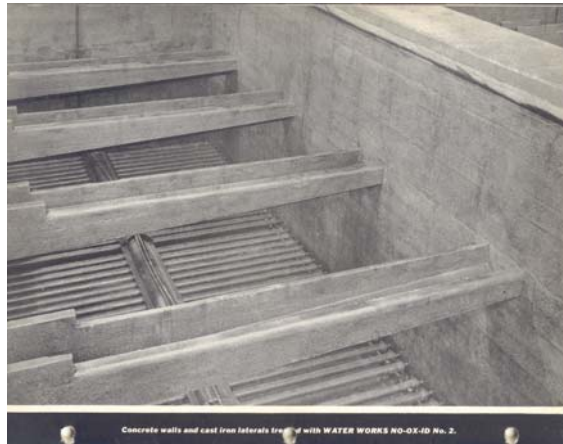
water, just fill the tank on solve the emergency. Once applied, water can not wash away the wax coating!)

In 1948 the AWWA first recognized NO-OX-ID type protective coating systems for painting the interiors of municipal drinking steel water storage tanks. Then in 1961 this corrosion resistant coating gained approval of the United States EPA.

**Performance Features:** Blocks Corrosion, Maintains Flexibility, Lubricate, Antiseize, Self Healing, Non-cracking, Seals surface, Multi-functional, Low moisture absorption, Excellent chemical stability, High resistance to chemical action, Prevents biological attack of structure, prevention of corrosion caused by dissimilar metals.

**Surface Preparation** - is generally done by hand or power driven brush to remove loose rust scale. But for a severely corroded tank, sandblasting tank interiors SSP#6 may be required. NO-OX-ID and its rust inhibitor system penetrate into the metal surface therefore this steel coating is more resistant to under film corrosion.

**Application:** This corrosion product can be cold applied with a stiff bristle brush, roller with a 3/4" nap, or applied hot using airless spray equipment..



### PREVENT RUST IN WATER & WASTEWATER FACILITIES WITH NO-OX-ID

- Ash Conveyors
- Bar Screens
- Bearings - Low Speed
- Bolts
- Brackets
- Baffles
- Cable
- Threaded Connections
- Flanges
- Flat Gates
- Mixing & Aeration Equipment
- Flocculater Shafts
- Gears
- Hydrant Pipes Rods &
- Steel Settling Tanks
- Standpipes
- Storage Tanks
- Tank Roofs Underside
- Steel Baffles
- Strainers

- Metal parts of Clarifiers
- Chains
- Clamps
- Packing Glands to Prevent
- Concrete Reservoirs Metal Parts of Flocculators
- Concrete Pipe
- Corrosion of Stems
- Concrete Walls
- Cranes
- Condenser Cooling Coils
- Derricks
- Fittings
- Connectors
- Hoppers
- Hydrant Gasket
- Nuts & Bolts
- Paddles
- Pipes Sludge Digestion & Removal Pulleys
- Pumps
- Equipment Filtering Systems
- Radial Gates
- Screens
- Water Tank Interiors
- Submersible Pumps
- Valves
- Tank Bottoms
- Buried Valves
- Buried Pipes
- NSF approved lubricant
- Batteries & electrical

**Prevent Lime Build-up** - NO-OX-ID is a corrosion coating that has been used in maintenance of the water clarification system expansion joints and in the concrete basin next to the lime slacker to prevent concrete erosion. The flexible undersurface, allows for chemical rust inhibitors to remain in close contact with irregular surfaces and naturally expanding and contacting metal surfaces. Many coating companies have used a food pure grease like Crisco on their chains, pulleys, and other metal surface in and around these setting tanks. *Those products* didn't work very well, now they use a NO-OX-ID barrier coating.

**Prevent Biological Attack** - NO-OX-ID Rust Preventative marine coating stop biological attack of algae, zebra mussels and other sea urchins to metal, plastic and concrete structures in water. NO-OX-ID'S non-drying flexible attributes discourage stable anchoring necessary for biological attachment:



Panama Canal Lock and Dams

## PERFORMANCE TESTS & HEALTH CERTIFICATION

	NO-OX-ID <u>PWL 600</u>	NO-OX-ID <u>A-Special</u>	NO-OX-ID <u>A-Special WW</u>
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### *HEALTH CERTIFICATION*

NSF STANDARD 61 CERTIFIED	YES	YES	YES
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### PERFORMANCE TESTS

Humidity Cabinet ASTM D-2247 @ 20 mils ( 3 Year Test)	3 Years	3 Years	3 Years
Salt Spray ASTM B-117 @ 20 mils ( 3 Year Test)	3 Years	3 Years	3 Years
Oil Separation @ 100° F FMST 791B Method 321.2	0%	0%	0%
Number of Coats	1	1	1
Economical	YES	YES	YES

### PHYSICAL AND CHEMICAL PROPERTIES

Flash Point ASTM D-92	400° F min	250 °F min	250° F min
Congeaing Point ASTM 938	130-165	125-160	120-155
Penetration D-937	160-300	140-185	200-280
Phenols	1 ppm max	1 ppm max	1 ppm max
Total Heavy Metals	1 ppm max	1 ppm max	1 ppm max



# WATER STORAGE TANKS

Approximate coverage for NO-OX-ID is 100 sqft/gallon when used at a thickness of 25-30 mils. This chart shows the approximate amount of NO-OX-ID required for various tanks having conical roofs and ellipsoidal bottoms.

<u>CAPACITY</u> GALLONS	<u>INTERIOR AREA</u> SQUARE FEET	<u>APPROXIMATE USAGE</u> GALLON	<u>POUNDS</u>
50,000	2000	20.0	142
100,000	3100	31.0	228
150,000	3970	39.7	291
500,000	9260	92.6	680
1,000,000	15,750	157.5	1,156

Application can be made using a brush, roller with a ¾ "nap or by airless sprayer. Airless spray equipment is needed to properly spray NO-OX-ID "A-Special WW"

226-252	40-1 Bulldog on a single post ram
215-244	25 foot, 3/8" I.D. fluid hose (5000 psi)
207-300	Mastic spray gun
205-649	RAC I nozzle
205-969	Ball tip (.519)
207-946	3/8" x 1/2" npt swivel additional tips

**STOP RUST BEFORE IT STARTS WITH A SAFEGARD PROTECTIVE COATING**  
**Sanchem Inc. · Chicago, IL · 312-733-6100 · 800-621-1603**

**NO-OX-ID**  
 IRON + OXIDE = RUST  
REG. TRADE MARK  
 The Original Rust Preventive

# MATERIAL SAFETY DATA SHEET

HMIS RATING: H-0 F-1 R-0

## SECTION I - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **NO-OX-ID "A SPECIAL WW"**

COMPANY IDENTIFICATION: SANCHEM, INC. TEL: 312-733-6100  
1600 S. CANAL STREET CHEMTREC: 800-424-9300  
CHICAGO IL 60616

SIGNATURE OF PREPARER: DATE: 2/10/09  
(Optional)

## SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

	OSHA PEL	ACGIH TLV	CAS#		%
Mineral Spirits Rule 66	500	100	8052-41-3	350mg/cu*	11%

\*NIOSH Recommendations for an 8 Hour Exposure to 100% Mineral Spirits – Rule 66

According to current US Dept of Labor Standards, this Material Contains NO Toxic or Hazardous Chemicals

## SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	450°F	Specific Gravity (H <sub>2</sub> O = 1):	0.85 – 0.90
Vapor Pressure (mm Hg.):	N/A	Melting Point:	125°F -
150°F			
Vapor Density (AIR = 1):	N/A	Evaporation Rate:	
		(Butyl Acetate = 1):	N/A
Solubility in Water:	Insoluble		
Appearance and Odor:	Light to Dark Brown Wax - Odorless		

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):	250°F 120°C C.O.C.
Flammable Limits:	LEL 0.9 UEL 6.0
Extinguishing Media:	Dry Chemical, Sand or Foam
Special Fire Fighting Procedures:	Recommend Supplied Air Respirator
Unusual Fire and Explosion Hazards:	Water May Cause Frothing which May Cause Splattering of Hot Material

## SECTION V - REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	
Incompatibility (Materials to Avoid):	Strong Oxidizers
Hazardous Decomposition or Byproducts:	Carbon Dioxide, Carbon Monoxide or Hydrocarbons
Hazardous Polymerization:	Will Not Occur



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**SECTION VI - HEALTH HAZARD DATA**

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Routes of Entry:	Inhalation:	N/A
	Skin:	Yes
	Indigestion:	Yes
Health Hazards (Acute and Chronic):	N/A:	
Carcinogenicity:	NTP?	No
	IARC Monographs?	No
	OSHA Regulated?	No
Signs and Symptoms of Exposure:	May Cause Minor Skin Irritation	
Medical Conditions Generally Aggravated by Exposure:	None Known	
Emergency and First Aid Procedures:	Skin:	Wash with Soap and Water
	Ingestion:	Induce Vomiting
	Eyes:	Wash & Irrigate with Saline Sol.

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**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

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Released or Spilled:	Scoop up and Store in Sealed Steel Drums for Disposal. Wash Area Down with Soap and Water.
Waste Disposal Method:	Normal Scavenger
Storage and Handling:	Store in Cool Dry Area away from Open Flames, Heat or Sparks
Other Precautions:	None

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**SECTION VIII - CONTROL MEASURES**

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Respiratory Protection:	Not Required
Ventilation:	Not Required
Protective Gloves:	Optional
Eye Protection:	Goggles
Protective Clothing or Equipment:	Not Required
Work/Hygienic Practices:	Wash Hands Before Eating

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**SECTION IX - DISCLAIMER**

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The information in this MSDS was obtained from current and reputable sources. The data is provided without any warranty, express or implied, regarding its correctness or accuracy. It is the user's responsibility to determine safe conditions for product usage and to assume liability for loss, injury, damage or expense resulting from improper use