

NRXTM Coatings

Technical Data Sheet

DESCRIPTION: NRXTM is a one component, waterborne, acrylic co-polymer composition that reacts and cross-links with painted metal and/or rusted surfaces creating superior anticorrosive properties. This NRXTM product is non-hazardous, environmentally friendly and non-flammable. Can be applied to damp or dry surfaces as a primer or finish coating.

COLOR: Available colors subject to change:
First Coat: Primer Brown
Second Coat: Primer Light Brown
Final coat: RAL 7000 Grey, RAL 9005 Black,
RAL 6002 Green.

GLOSS: Egg shell gloss (40-55 units) in 60 ° angle

COMPOSITION DETAILS:

Binder:	Acrylic co-polymer complex
Pigment:	Inorganic and anti-corrosion pigments
Solvents:	Water
Specific weight:	1.1 ± 0.1
Solids by weight	60% +/-2%
Solids by volume	49% +/-2%
Viscosity	1100 +/-100
VOC content:	0 gr/l

SURFACE PREPARATION:

Use a pressure water spray 3000-3500PSI (207-241bar) and/or steel brush to remove all loose surface corrosion. Solid and stable rusty surface is acceptable for coating. Confirm any oil and or grease has been removed from the surface prior to coating. If solvents were used to remove grease or oil, remove all solvent residue with an additional pressure water spray before applying NRXTM coatings.

RECOMMENDED APPLICATION TOOLS:

Airless spray gun:	0.017”-0.21” Nozzle size Operating pressure 1800-2200 psi (124-152 Bar) nozzle pressure.
Brush:	Natural bristle
Roller:	3/8” nap, no-lint cover (roller application is recommended for horizontal surfaces only).

MEASURE RUST THICKNESS

Medium to Heavily Rusted Surfaces: (Over 50 microns of rust).

A) Primer #1	Wet film thickness	200-250 microns
	Dry film thickness	Approx. 70-80 microns
B) Primer #2	Wet film thickness	200-250 microns
	Dry film thickness	Approx. 70-80 microns
C) Finish coat	Wet film thickness	200-250 microns
	Dry film thickness	Approx. 70-80 microns
Total system	Dry film thickness	210-240 microns

Lightly rusted surface (less than 50 microns of rust):

A) Primer #1	Wet film thickness	180-210 microns
	Dry film thickness	Approx. 60-70 microns
B) Primer #2	Wet film thickness	200-250 microns
	Dry film thickness	Approx. 70-80 microns
C) Finish coat	Wet film thickness	200-250 microns
	Dry film thickness	Approx. 70-80 microns
Total system	Dry film thickness	200-230 microns

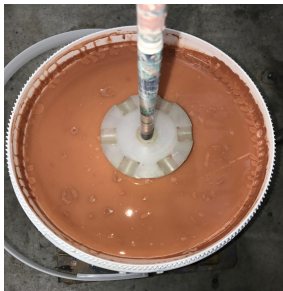
Surfaces with old paint and rust

First prime rusty spots with approx. 50-60 microns dry film thickness, then follow instructions for lightly rusted surfaces.

COVERAGE: 8-10 m² /liter for 70-80 microns dry film thickness. Actual coverage will vary depending on surface, application tools and type of structure that is painted.

MIXING INSTRUCTIONS:

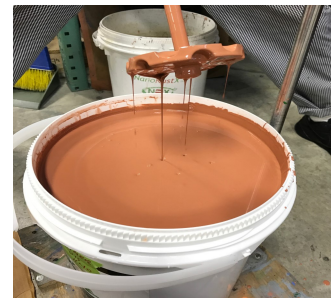
Use an **NRXTM** mixing disc with a diameter of approximately 1/3 the diameter of the pail. Insert mixing blade into container until it is approximately 1- 2” from bottom of container. Mix the coating for approximately 10 minutes at a rate that enables a vortex without drawing air into the coating. Move mixing disc around in pail while mixing. Coating is properly mixed when upon lifting the mixing disc out of the material, the coating flows smoothly like oil without dripping. As the paint will thicken in storage, confirm there is no material on the side walls or the bottom of the container during the mixing process. Re-mix paint before use.



Mixing blade



Create vortex without drawing air into coating.



Coating is properly mixed when it flows like oil from the mixing blade.

RECOMMENDED APPLICATION METHOD: Airless spray gun, brush or roller.

CLEANING: Use water only. Clean equipment within 15 minutes of coating completion.

RECOMMENDED DRYING TIMES:

Temperature	To Touch	1 st Coat	2 nd Coat	Final Coat
10-15 °C	45-60 Min	4 Hrs	4 Hrs	4 Hrs
15-20 °C	30-45 Min	3 Hrs	3 Hrs	3 Hrs
+23°C	20-30 Min	2 Hrs	2 Hrs	2 Hrs

- NOTES:**
- 1. IT IS IMPORTANT TO WAIT FOR COMPLETE DRYING TIME OF EACH LAYER BEFORE APPLYING SUBSEQUENT LAYERS.**
 - 2. WHEN PAINTING IN ENCLOSED AREAS, VENTILATION MUST BE PROVIDED TO FACILITATE PROPER DRYING**

CURING: Full polymerization and hardness occurs within 7 days.

NANO TECH, ECO FRIENDLY, RUST EXTERMINATING COATINGS

COMPATABILITY: It is not recommended to use solvent borne paints as an intermediate or top coat because of their incompatibility. Use only tested, approved water based products.

NOTE: When painting over existing paint, **NRXTM** will chemically react with the existing paint and in some cases may create white staining. This is only cosmetic and will not affect performance.

HEALTH & SAFETY: Always follow instructions on the containers and refer to the material safety data sheets that are available from your local supplier.

STORAGE: The product should be stored away from direct sunlight at temperatures of 3⁰C to 35⁰C. **DO NOT ALLOW TO FREEZE.**

SHELF LIFE: 24 months in unopened containers (depending on atmospheric conditions). Approximately 12 months in opened and re-sealed containers.

WARRANTY: NanoRustX warrants our products to be free of manufacturing defects in accord with applicable quality NanoRustX quality procedures. Liability for the products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by NanoRustX. No other warranty of guarantee of any kind is made by NanoRustX expressed or implied, statutory, by operation of law or otherwise, including merchantability and fitness for a particular purpose.

All information and data provided is the best of our knowledge, true and accurate and is given in good faith. However, no guarantee of results is implied as the conditions of use are beyond our control.