

Ecological paint manufactured by nanotechnology, environmentally friendly, based on water, for direct painting over rust.

Manufacturer	NanoPaint Ltd	
Product code	10333	
Product Description	Ecological paint manufactured by nanotechnology, environmentally friendly, water based, for direct painting over rust, the product contains one component, the paint is used both as primer paint and for top coat, non-toxic, the product does not emit toxic fumes, it is easy to apply, it is flame retardant, it corresponds with c2-c5m.	
Features and Benefits	The chemical elements in the paint directly act on rust. The paint inserts microns into the metal and uses rust as part of the protection layer to prevent the development of fresh rust. The paint has strong adherence abilities and is excellently flexible.	
Applications	The paint is designated for direct painting over rust on infrastructures located in harsh marine environments, in closed rooms and in facilities sensitive to explosives and flammables; painting metal parts under extreme weather conditions - in civilian infrastructures, health and transportation institutions and industrial plants.	
Technical Data	Shade	As per RAL shades and pre-ordering
	Finish	Matt
	Percent solids per volume	45-52%
	Film thickness per layer	40-60 micron
	By painting "wet on wet" in 15 minutes intervals the final thickness can reach up to 100 microns Coverage calculated per layer* 7-12 sqm/l depending on layer thickness and surface absorption	
Recommended Dilution	Ready-to-use paint (if necessary, it can be thinned with up to 10% water)	
Drying time	Drying time for contact	10 minutes
	Recommended wait time between layers	2-4 hours
	Final drying time	7 days
	Drying for transport	After approx. two hours
	Shelf life	18 months as per storage instructions
Area and Paint System Preparation	Removal of rust residues and old paint with a hard brush or a water pressure jet (20) bar. The dust and oil residues should be removed and cleaned with water pressure and soap to decompose the oils.	
Paint System	Gray, red, green, white, yellow and a large number of RAL shades according to purchase order. Finish matt.	
Application method	Brush / roller / airless / paint sprayer. Do not use application tools which were previously used with materials based on solvents and thinners.	
Cleaning procedure	With lukewarm water immediately after use, soap can also be used.	

Recommended Method of Painting: Surface Painting

1. Important to ensure: Nanopaint paint system is water based and is very sensitive to solvents and thinners do not mix the paint with another paint system.
2. After preparing the surface slowly mix the paint thoroughly using a blade mixer or by hand, until liquids and solids are fully homogenous.
3. If required, paint can be diluted using tap water up to 10% only.
4. Paint the first layer between 40-60 micron thick when dry.
5. Paint a total of up to 3 layers, leaving 1-3 hours between layers based on room temperature, humidity conditions and surface absorption.
 - Maximum uniformity is achieved when using a spray process.
 - Good results using a brush will be seen mostly on smooth and polished surfaces.

General Comments

1. The paint is packaged in plastic containers only.
2. The paint is available in various shades.
3. Best to use the paint within 18 months of manufacturing date.
4. Paint is ready to use, may be diluted as needed up to 10%.
5. The paint is water based and must be stored in a shaded area. Recommended storage temperature is between 7-35 degrees Celsius.
6. Mix well before use either by hand or by using a mixer at low speed in order to avoid foaming and air bubbles.
7. If foaming and air bubbles occur wait approx. 15 minutes before use.
8. If using the paint with a sprayer pour the paint slowly onto the sprayer sidewall in order to avoid foam.
9. Drying time between layers: between 1-3 hours. Final drying: 7 days.

Tools to be used with Nanopaint



Airless Spray minimal pressure of 4 atmospheres



Professional and high-quality spray paint gun (preferably one used to paint cars), use 1.6-1.7 mm nozzle.



Standard roller or brush



Professional tool for mixing paint or a handle that fits onto a screwdriver with rotation control (blade handle not spiral)



Soap suitable for removing oils and solvents and other dirt for proper surface preparation.

Precautions

- ✓ Implementation and use of the product must be in accordance with safety, hygiene and environment regulations.
- ✓ Do not eat. Ensure proper ventilation of the working area. When spraying- do not inhale or swallow the paint.
- ✓ Use proper protection gear, see safety sheet.
- ✓ **Keep away from children's reach.**

