

PRODUCT DESCRIPTION

NTD White 3 is a TiO₂ free, high-performance and mineral-based paint for interior and exterior walls and surfaces, fresh or previously coated.

- No Titanium Dioxide
- No Volatile Organic Compounds (VOC)
- No Pesticides nor Biocides
- Mineral Basis
- Vapor Permeable
- Strong Adhesion
- Durable
- Alkali Resistant
- UV Resistant
- Non-Flammable
- Non-Film-Forming

CHARACTERISTICS

Dry powder: water	2.5 : 1	2.0 : 1
Opacity @ 100µm wet film	99.6%	97.5%
Opacity @ 200µm wet film	99.6%	99.4%
L* dry film	95.6	
a* dry film	-0.65	
b* dry film	1.26	
pH	8.6	8.2
Density (g/cm ³)	1.70	1.62
Viscosity (mPa*s)	18.522	14.420

Product characteristics when mixed 2.5: 1 with water:

- Spreading (ISO 6504-3, m²/Lt wet paint): 8.5
- Weight 1 Lt wet paint (ISO 2811, Kg): 1.7
- Dry matter content of wet paint: 71%

Preliminary Data:

- Adhesion on lime-sand brick (ISO 4624, MPa): 1.53
- Adhesion of OPC concrete (ISO 4624, MPa): 3.2
- Weathering test colour change (ISO 11507, ΔE): 0.96
- Flaking, cracking, blistering (ISO 11507): none
- Chalking (ISO 11507): 1
- Water vapor permeability (ISO 7783, g/(m².d)): 245 (Class V1)
- Liquid water permeability (EN 1062-3, Kg/(m².h0.5)): 0.16 (Class W2)
- Alkali resistance (ISO 4628-2): Pass
- Wet scrub resistance (ISO 11998): Class 2
- Gloss (ISO 2813): mineral mat

(Based on preliminary test data by an independent coatings research lab in the Netherlands)

SUBSTRATE & PREPARATION

NTD White 3 has been developed for application on mineral substrates such as concrete, brick, plaster, stone, bitumen and similar. Can also be applied on wallpaper and some other surfaces. Other surfaces should be evaluated prior to application. Substrate humidity should be less than 10% for the best results.

The substrate to be painted should be clean, free of dust, algae, or grease. Loose and brittle/flaking parts, algae, grease, old paint layers and other surface contaminants should be removed and if necessary repaired by suitable mechanical or chemical means.

No primer is needed for normal applications, including many moist and/or porous surfaces.

APPLICATION

NTD White 3 can be applied as a 1 or a 2-coat process, using a brush or a roller. Always evaluate a test patch prior to application.

Air and surface temperature above 5°C. Do not apply in direct sunlight or on heated surfaces. Avoid painting at temperatures above 30°C or at full humidity.

MIXING

Add 1 Lt of tap water to a suitable bucket and slowly add 2.5Kg of NTD White 3 powder while mixing with a properly equipped electrical drill or mixer for 3 minutes at high speed until a smooth mixture has been obtained. Make sure that no agglomerates are left in the mixture.

Depending on the desired viscosity, the NTD White 3 powder content can be reduced until 2.0 Kgs per 1 Liter of tap water. (This is the equivalent of adding 25% more water initially or adding 15% to the prepared wet paint.) However, this will reduce the opacity, increase the drying time and an extra coat might be required. Always evaluate a test patch prior to application.

Make sure to add the water gradually while mixing in order to insure a smooth mixture.

The information below can be used as a starting point for typical application.

Concentration	NTD White 3 (kg)	Tap water (Lt/Kg)	Wet paint (Lt)	Coverage (m ²) @ >98% opacity
2.5:1	0.75	0.3	0.62	6.2
	1.0	0.4	0.82	8.2
	2.5	1.0	2.06	21
	5.0	2.0	4.12	41
2.0:1	1.0	0.5	0.93	7.5
	1.5	0.5	1.23	10
	3.0	1.5	2.78	22
	5.0	2.5	4.63	37

DRYING TIME

NTD White 3 starts curing immediately after preparation. This means that wet paint should be applied within 2 hours. It is normal that the paint becomes thicker as a result of the curing process.

Please allow 12 hours between application of coats. The maximum curing is obtained after 4-8 weeks.

NTD White 3 should not be mixed with other products, only with clean tap water.

AFTER APPLICATION

Do not release unused paint to the environment and do not dispose of it in a sink. Once hardened out, it can be disposed of in the same way building materials like cement and brick are disposed of. NTD White 3 does not pose a threat to the environment or aquatic life.

Always follow local rules and regulations for safe disposal of NTD White 3, whether in powder or liquid form.

Brushes and rollers and other tools should be thoroughly rinsed with water immediately after use.

STORAGE

Store in closed packaging, keep away from high temperatures or high humidity.

NTD White 3 can be stored in unopened packaging during at least 24 months.

TRANSPORTATION

No hazard class applicable.

SAFETY INSTRUCTIONS

- Keep out of reach from children and pets
- Protect against moisture
- Avoid breathing dust
- Wear protective gloves/ clothing
- Protect all areas that are not to be coated, such as glass, natural stone, ceramics, wood, glass, etc. using suitable measures. Splashes should be removed immediately with plenty of water.
- In case of eye contact, rinse thoroughly and seek medical attention

ECO LABEL

NTD White has been tested and complies with all functional and regulatory requirements of the EU ECO label for coatings. (Provisional data)



NTD PAINTS CONTACT INFORMATION

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