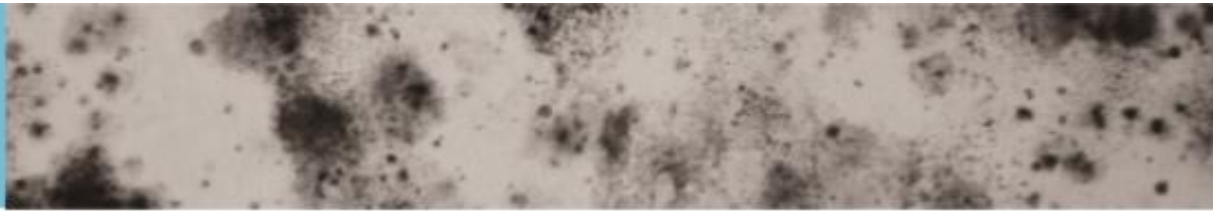




Photocatalytically active coating for mould protection (indoor use)

TA2216



Benefits

TECHNICAL BENEFITS

- Reacts on UV and visible light
- Suitable for various interior surfaces and fabrics
- Self-cleaning properties
- Hydrophobic surface
- Bonds with substrate
- Low material use per m² 50 – 300 ml/m²
- Full transparent coating
- No change of look-and-feel of host-material
- Fast drying
- Free of solvents
- Contains no biocides
- Long durability of >10 years

OPERATIONAL BENEFITS

- Prevents organic growth like mold, algae or moss
- Filters VOC's, pollen, NOx from the air
- Provides stain resistant and odour-neutralizing properties
- 90m² treated surface = filter capacity of 8 mature oak trees
- Minimizes need for cleaning
- Application by ESS, HVLP, roller or bathing
- Easy to touch-up during replacement or repair of surface
- Maintains pristine appearance of treated surfaces
- Non-hazardous, easy to transport

FINANCIAL BENEFITS

- Low cost per m²
- Minimizes cost for cleaning agents and soaps
- Minimizes repair and replacement costs due to pollution
- Reduces cost for ill personnel

Description

nC® Nadicare® TA2216 Mold Protection is a very fine, water-based titanium-dioxide dispersion. Its formulation is a photocatalytically active coating and is fully transparent. Upon radiation with light, the coatings will release oxygen radicals from the ambient air and thus decompose organic pollution: The surface becomes self-cleaning. TA2216 is active under UV light as well as under artificial light up to a wavelength of 475 nm.

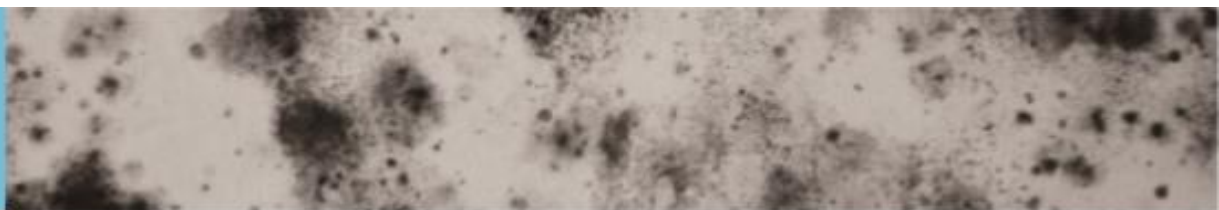
TA2216 is designed to protect interior surfaces against mould. TA2216 is designed for plaster, wallpaper, wall paint, painted surfaces, plastics, but not for glass, metal and transparent plastics. The effect of photocatalysis is supported by a combination of silver ions and zinc pyrithione.

nC® Nadicare® TA2216 is an indoor application. On dark and plain painted or plastic surface, please apply primer TP2223.



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Description

nC® Nadicare® TA2216 unites the advantages of photo catalysis and hydrophobicity. By doing this, the coating system offers a very robust and wear resistant surface. The lifetime cycle of the coating is around 10 years. The active self-cleaning characteristics of titanium-dioxide will easily remain intact throughout this period.

Application

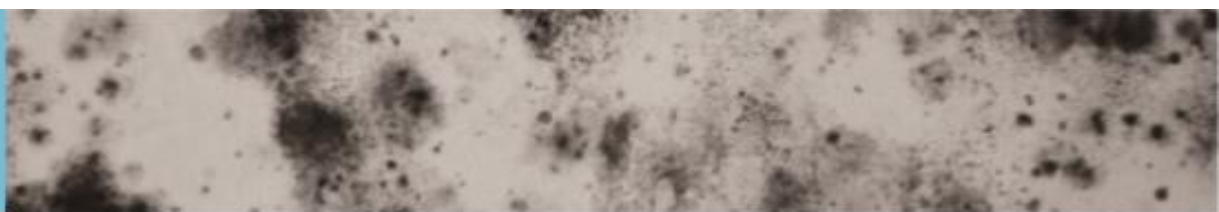
TA2216 is suitable for electro static spraying (ESS) or HVLP. In case of industrial application, technical consultation at the nC Group R&D dept. is strongly recommended.

- Do not eat, drink or smoke during application.
- Surface must be clean and free from kit, glue, grease, mold or moss.
- Rinse with clean and fresh water to remove soap residues.
- Surface must be dry.
- Ambient temperature during manual application must be at least 20° C.
- Do not apply when ambient humidity exceeds 80%.
- Do not apply in a dusty environment.
- Wear protective gloves during application. Wear safety goggles during application.
- Shake container well for a minute.
- Use ESS or HVLP for application.
- Recommended application quantities:
 - Plain surfaces 30 ml/m²
 - Textured surfaces 60 ml/m²
 - Absorbent surfaces 100 ml/m²
- On dark and plain painted or plastic surface, please apply primer TP2223 (15 to 50 ml/m²) first and reduce the above mentioned application quantities by approx. 25 %.
- Let surface dry for 60 minutes.
- Put left-over nC® Nadicare® TA2216 in container and use-up within 4 weeks after first opening of original.
- nC® Nadicare® TA2216 will deteriorate fast when dirty or greasy items are coated without cleaning.



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Application

- Clean tools, spraynozzles with water immediately after every stop.
- Wash hands and face after every stop.

As the technology is about bonding particles into surfaces, matrices of particles need to be built up after application. The treatment reaches full performance AFTER a cure time of approximately 48 hours, which is dependent upon environmental variables, humidity and heat applied (max 150 °C). Tests for performance should be done after full cure. However, the surface can be used and exposed 30 minutes after application.

Limitations

- Do not apply on glass as it will become foggy.
- Re-apply regularly on paths or walking areas that are in heavy use.
- When installing over poor, greasy or dirty surfaces, the bonding of nC® Nadicare® TA2216 will become erratic, and so will the results be.
- Do NOT freeze product or store in subzero areas.
- Do not allow application during freezing temperatures.
- The selfcleaning effect will not occur in poor visible light, the effective light spectrum is < 475nm for artificial light.

Logistic info

- Store nC® Nadicare® TA2216 at temperatures between +5° C and +30° C.
- Store nC® TA2216 for max. 12 months in unopened containers counting from production date.
- Storage life for opened containers is 4 weeks, keep containers tightly sealed and store in a dark place.
- **Avoid freezing product.**
- nC® Nadicare® TA2216 is available in 5x1L, 5L, 25L and 200L containers.
- Never use pressure to empty containers.
- Dispose of contents/container in accordance with local/regional/national/international regulations.



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TA2216



Logistic info

- UN number DOT, IMDG, IATA: None
- Shipping name DOT, IMDG, IATA: None
- Transport hazard class DOT, IMDG, IATA: None
- Packaging group DOT, IMDG, IATA: None
- Environmentally hazardous: No
- Marine pollutant: No

Typical properties

- TiO₂ , H₂O, Ag, Zinc Pyrithione
- Appearance: Opaque cloudy liquid
- Active material: 1% by weight
- Effective light spectrum: up to 475 nm
- pH value: approx. 7,0 - 8,0
- Primary particle size: < 8nm
- Specific Density: 1,105 g/ml

