2025, June the 27th

TECHNICAL DATA SHEET

3AAA Active Anti-virus Anti-bacterial

DESCRIPTION:

3AAA is a waterproof surface coating that actively eliminates bacteria and viruses from surfaces and fabrics, reduces dirt-adhesion, and decreases NOx in the air through the effect of light.

MAIN FEATURES

Characteristics	Advantages/Benefits	Applications
Long lasting Active virucide sanitizer	Creates an *active* barrier against viruses and bacteria, for less diseases proliferation	MATERIALS: glass, woods, polymers, metals, PVC, varnished surfaces, fabrics, lathers, etc.
Actively works in dark environment	6-Months+ sanitizes surfaces and environment, so less maintenance required	AREAS: Condominiums and houses, hospitals and clinics, fitness centers, museums, offices, sports arena, ports, airport, train and metro station, cruise vessels and yachts, airliners and private jets, trains, cars, buses, windows, ventilation systems, air filtration systems, etc.
Non-stick and Water repellent (hydrophobic)	Creates an ultra-thin (nanometric) coating, avoiding the formation of stagnant wet areas	
NOx reducer (~ 40% reduction)	Easily cleanable surfaces and less air pollution	
High operating temperature range (from -70°C to +250°C) and UV ray resistant	Possibility of use in environments with extreme temperatures, offering a wide application range	

DO NOT use it on floors: risk of slipping.
For floors must be used *3AAA-WE* (Walkable) and *Floor-C* (floor's cleaning).

Does not require the use of specific detergents.
Does not contain metal nanoparticles or biocides.

3AAA creates a nanostructured, water-repellent surface coating with a triple action: it forms an active barrier against viruses and bacteria, reduces dirt adhesion, and decreases airborne pollutants.

The sanitizing action, both virucidal and antibacterial, occurs in both darkness and light, ensuring 24/7 effectiveness. **On porous surfaces last 12 months**.

Antibacterial tests, carried out according to the **ISO 20743:2021** standard (porous surface), have shown an efficacy greater than **99.7%** in reducing bacterial load.

The presence of nanostructures within the coating ensures a self-regenerating sanitizing effect every time the *non-porous* surface is cleaned with the specific product **EverySurf-C (Cleaning)**, extending the coating's lifespan from 6 months to at least double.

3AAA contains highly oxidizing nanoparticles that provide antiviral activity, tested with the human SARS-CoV-2. We are going to take the same test for the HMPV virus and will be conducted at the Vismederi Lifescience microbiological testing laboratory in Siena.

When in contact with potential humidity or stagnant water inside air ducts or other systems of Air Handling Units, **3AAA** does not release substances harmful to health or the environment, as confirmed by MOCA migration test.

3AAA does not release Volatile Organic Compounds (VOCs), as demonstrated by the VOC test.

The reduction of airborne pollutants occurs in the presence of light and humidity through a photocatalytic effect. Light absorbed by the nanoparticles within the 3AAA coating generates components that bond with pollutant molecules, transforming them into substances that are harmless to the environment.

Laboratory tests assessing photocatalytic efficiency through the degradation of nitrogen oxide (NOx) reveal a 40% reduction in the gaseous molecule.
Based on these results, it is estimated that 1 square meter of surface coated with **3AAA** and exposed to sunlight can reduce NOx gases at a level comparable to 100 square meters of forested area.

3AAA has a coverage rate of 50–65 m^2/L on smooth surfaces and 20–30 m^2/L on porous surfaces.

3AAA must be stored in its original packaging in a cool, dry environment (with a temperature not exceeding 25°C and not below 5°C).
Under these conditions, the product can be stored for up to 12 months.

The product is available in the following HDPE packaging:

1 L (0,22 Gal)	5 L (1,1 Gal)	25 L (5,5 Gal)	50 L (10,1 Gal)
100 L (21,1 Gal)	250 L (55 Gal)	500 L (109,98 Gal)	1000 L (219,97 Gal)

USAGE INSTRUCTIONS

Shake before applying the product.

Important Application Guidelines for 3AAA:

- **DO NOT** apply in windy conditions.
- **DO NOT** apply if the surface is damp or wet (the dew point must NOT be present on the surface to be treated).
- **DO NOT** apply on overly hot surfaces or surfaces exposed to direct sunlight, to prevent the solvent from evaporating too quickly and causing unwanted product buildup.
- **DO NOT** clean the surface with products that leave surfactant residues: if such products are used, the surface must be rinsed or cleaned with isopropyl alcohol, particularly for steel or painted surfaces.

Optimal Application Conditions:

Temperature between 5°C and 30°C with relative humidity not exceeding 80%.

Curing Conditions:

3AAA crosslinks and forms an ultra-thin, transparent coating, becoming active within 4 hours of application. Its protective, water-repellent action reaches optimal performance after one to two days.

3AAA is applied immediately and directly onto dry-clean surfaces by spraying with a spray gun (nozzle ∅ 0.7 mm, pressure between 2 bar and 4 bar) using the appropriate equipment or manually with a microfiber cloth..

WARNING:

DO NOT clean surfaces treated with 3AAA using products containing Acetic Acid, to avoid rapid deterioration of the coating or even its removal.