

DATASHEET

MEDGUARD+

ANTIVIRAL & ANTI-MICROBIAL PAINT



DESCRIPTION

MedGuard+ is a water based anti-viral and antimicrobial coating specifically developed for action against viruses, gram positive, and gram-negative bacteria. It inactivates enveloped viruses such as Coronavirus and Influenza viruses via a charge-based interaction with their outer lipid envelope layer.

MedGuard+ antiviral activity is measured using the standard ISO 21702.

RECOMMENDED FOR

Providing painted surfaces with anti-viral and anti-bacterial active properties

KEY FEATURES

- Potent anti-viral activity
- Broad spectrum of anti-bacterial activity
- Inactivation of more than 99.5% of Influenza A & Corona virus
- Low odor & low VOC
- Fast recoat
- Excellent chemical resistance
- Hard wearing & chip resistant

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PHYSICAL PROPERTIES

Resin Type	Vinyl Acrylic	
Solvent Type	Waterborne	
Finish Type	Gloss Level 2, a high-side sheen flat, velvet-like finish.	Not more than 10 units at 60 degrees and 10 to 35 units at 85 degrees
Gloss Values	(20/60/85) = 1, 7.9, 20.1 - Velvet 20.1	Based on ASTM D523
Spreading Rate	Approximately 8-9 m ² /kg/coat 2-3 coats recommended depending on surface porosity and application techniques	
Average Dry Time	Touch-dry in 1/2-1 hour	Based on ASTM D 1640
Recoat	After 2-4 hours.	
Dry Film Thickness	40 to 45microns depending on application	
Thinner	Add up to 15% of clean water for first coat and up to 20% of clean water for the following coats	
Hiding Power	98.2% ±0.3 at 200-micron WFT	ASTM D2805
Adhesion	1 N/mm ²	Based on ASTM D4541
Scrub Resistance	Higher than 10,000 cycles	Based on ASTM D2486
Density	1.28 g/cm ³	
Volume Solids	49.9%,	
Viscosity	10,000 - 15,000 cP	Measured with Spindle 4 at Speed 5
VOC	Maximum of 30 g/L. Testing Methods Used <ul style="list-style-type: none">• ASTM D6886• EPA Method 24(ASTM D2369)• ASTM D3960• UL 2821• ISO 11890-2	<ul style="list-style-type: none">• Compliant with GS-11 Standards, 1993• Compliant with UL 2818 - 2013 Gold Standard• Compliant with LEED 2009• Compliant with LEED V4• Compliant with EU Directive 2004/42/EC• Compliant with SCAQMD Rule 1113, 2004• Compliant with California Department of
		Public <ul style="list-style-type: none">• Health (CDPH) Standard Method V1.1-2010
Bases	White	

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CERTIFICATION AND COMPLIANCE

THIS PRODUCT IS GREENGUARD GOLD CERTIFIED

The above mentioned certification determines our products compliance with the following building codes and programs amongst others:

- CHPS 2.2.2: Paints & Coatings
- LEED 2008, LEED 2009 and LEED V4
- Compliant with LIBNOR

84:1999& LIBNOR 83:1999 This product

is compliant with the following standards

- UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings
- Masters Paint Institute #44 – Latex interior, velvet like gloss level 2
- Masters Paint Institute #138 – Latex interior High performance architectural gloss level 2
- Masters Paint Institute #144 – Latex interior, Institutional LOW ODOR/VOC, gloss level 2

This product is tested as per ISO 21702 for its antiviral activity on surfaces.

SURFACE PREPARATION

All surfaces must be cured, clean, dry, and free from dirt, dust, rust, stains, grease, oil, mildew, wax, efflorescence, bond-breakers, and other contaminants. Remove all loose, peeling, or chalky paint by sanding, scraping, or any other proper methods. Repair all cracks, holes, and other surface imperfections with a suitable patching material. Repaired surfaces should then be sanded smooth

and dusted clean and primed with a suitable Dimapchem primer.. New plaster or masonry surfaces must be allowed to cure (28 days) before applying base coat. Cured plaster should be hard, have a slight sheen and a maximum pH of 10. A soft, porous, or powdery plaster indicates improper cure. Knife off any protrusions and prime plaster before and after applying patching compound.

Poured or pre-cast concrete with a very smooth surface should be etched or abraded to promote adhesion, after removing all form release agents and curing compounds. Remove any powder or loose particles.

CAUTION: Scraping or sanding surfaces of older buildings may release dust containing lead or asbestos. EXPOSURE TO LEAD OR ASBESTOS CAN BE VERY HAZARDOUS TO YOUR HEALTH. Always wear proper personal protective equipment during surface preparation and finish cleanup of any residues by water-washing all surfaces.

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PRIMER SYSTEM

SURFACE TYPE	RECOMMENDED PRIMER
Drywall	Dimapchem Primer
Porous Masonry	Dimapchem Sealer, Dimapchem Primer
Non-Porous Masonry	Dimapchem Primer, Dimapchem Undercoat
Wood	Dimapchem Undercoat, Wood Primer
Metal	Dimapchem SX47 StopRust,Adhero, Adhero Quick Dry, Aquazinc

APPLICATION CONDITIONS

Do not apply at temperatures below 5 °C or when rain is expected. Stir well. Apply using brush, roller, or airless spray.

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PACK SIZE

- 1 US Gallon – 4.3 kg
- 1 US Quart – 1.07 kg

STORAGE AND HANDLING

Care should be taken to avoid spillage. Product should be stored in a dry area and protected from freezing. Extreme temperatures may cause paint to become unusable. For example: freezing and thawing may cause paint to gel, and high heat may cause solid skin to form.

SAFETY

Use under well ventilated conditions. Do not breathe or inhale spray mist or sanding dust. Avoid skin contact; spillage on the skin should immediately be removed with suitable cleanser, soap, and water. In case of eye contact, flush immediately with water for at least 15 minutes and seek medical attention immediately. If you experience difficulty breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

CLEANING

Clean equipment immediately after use with warm soapy water and rinse thoroughly. Do not empty product into drains or watercourses.

TECHNICAL ASSISTANCE

Available through your local Dimapchem Design Center or through your Dimapchem PAINTS® authorized distributor. For the location of the retailer nearest you, email us at Info@dimapchem.com or check our website www.dimapchem.com .

DISCLAIMER

Product batches are subject to stringent quality control checks in conformity with ISO 9001:2015, Certificate LB18/234269.

The information submitted in this manual is correct to the best of our knowledge & experience. No liability whatsoever can be accepted based on the information supplied herein.

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