

# Application Datasheet



## DESCRIPTION

ScudoMarine™ 502MT. is a superhydrophobic anti-corrosion anti-soiling protective top coating designed for protecting metals and electro plated surfaces in all marine environments

## FEATURES

- Abrasion & Chemical Resistant
- Anti-fouling - self cleaning
- Highly transparent
- UV resistant
- Premium weather-ability
- Expected functional life 4-5 years

## TYPICAL USE

**Industrial:**  
CSP (Concentrated Solar Power Mirrors)  
Automotive/Naval/Train interior and exterior trims and body coating.

Tapware for bathrooms & kitchens

Rail and gangways on boats and ships

**Architectural:**  
Interior and Exterior decorative small to very large objects  
Metal Gates; Pipes, Radiator fins, Metal carpentry in general



**ChromaMe Nano Tech Srls**

Distributed by Cyndux Integrated FZC  
United Arab Emirates, Dubai  
+971 54 246 2694  
www.chromame.ae

## SCUDOMARINE 502MT METAL-TOP

### ANTI-FOULING SERIES 8

Anticorrosive Transparent coating for metals and electro-plated surfaces

#### Key Characteristics

ScudoMarine™ 502MT is a 2K hydrophobic anti-corrosion anti-soiling protective top coating designed for protecting metals and chrome-plated stainless steel surfaces, especially in marine and desert environments. Extensive testing indicates that the product is effective both on boats and on offshore above-water installations as well as heat-intensive soiling desert applications.

The top-coat preserves the original shine of surfaces and doesn't allow corrosion to form and reduces the need for maintenance or polishing. It's nano structure prevents soiling and buildup of dust and dirt particles. The highly uniform surface features of coated mirrors show no measurable loss in specular reflectance.

#### Product Information

- Transparent : Maintains the original appearance of the metal
- Rust Inhibitors: Chemically active for ultimate rust protection.
- UV- Stabilizers: Ensures long lifetime of the coating
- Excellent Adhesion: The product has an ultra solid bond directly to all metal surfaces
- Chemical Resistance : Resistant to oil, grease, petrol, salt-spray and also to the most aggressive solvents
- Temperature resistance: -40°C - 150 °C
- Omni-phobic; hydrophobic
- Anti abrasion: Resists denting and scratching even in very high-wear areas
- Anti stain: Does not get stained by finger prints in handle and hand rail applications

#### Physical Features at supply

Binder type	Acrylic - 2K Product	
Appearance	Glossy- medium viscosity liquid	• Abrasion & Chemical Resistant
Colour [2]	Transparent	• Antifouling -Self-Cleaning.
Supply Vx	23 ± 3" CF/4 at 20°C	• Hydrophobic
Flash point	25°C	• Premium Weather-ability
Specific Density	0,990 ±0,030 Kg/l at 20°C	• Expected functional life of the coating is 4-5 years
VOC Content	455g/l	
Solids by volume [1]	70± 1%	

#### Dry Product Features

Dry film thickness	70-100 µm
Finish	Gloss 99%
Resistance to abrasion	4mg/cycle Taber Wear Index (ASTM D4060)
Tintable	Can be custom tinted in any RAL Paint Color with CME PIGMENTS
Coverage	6 sq.m./litre coat for thickness 70µm DFT

#### SPECIAL NOTES :

[ 1 ] ScudoMarine 502MT Metaltop always requires through surface pickling & cleaning with **ScudoPickling 100AB**

2 ] ScudoMarine™ 502MT can be custom formulated in any RAL Paint Color



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## SERVICES

### Technical Support

Is available on line 24/7  
Tel: +39-3311699006  
Email: [support@chromame.it](mailto:support@chromame.it)

### Application Support

**Live demo at**  
ChromaMe Italy  
ChromaMe Dubai  
Make an appointment  
Italy: +39-3311699006  
Dubai: +971 55820 7649  
Email: [support@chromame.it](mailto:support@chromame.it)

### Commercial Inquiries

- Training  
- Installation and setup  
- On line support  
Get in touch Whatsup  
Italy: +39 3311699006  
Dubai +971 55820 7649  
Qatar: +971 509594511

Email: [info@chromame.it](mailto:info@chromame.it)

For more information on any of our products or services please visit us on the Web at:

[www.chromame.it](http://www.chromame.it)



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## Instuction for use

<b>SURFACE PREPARATION</b>	Remove any contamination that could interfere with the top coating adhesion. Prior to applying ScudoMarine 502MT Metaltop it is <b>mandatory</b> to thoroughly clean the metal surface with the special solvent <b>SCUDOPICKLING 100AB</b> . <b>DO NOT</b> use any other solvent or pickling agent as the adhesion of ScudoMarine 502MT Metal top <b>CAN NOT</b> be guaranteed.  It can be applied directly to a well prepared surface that has been sanded to a perfectly flat, fine uniform finish.				
<b>CATALYSER (Hardner)</b>	SCUDOMARINE 502MT IS A 2K PRODUCT Mix Cathalysed ratio 5:2 <b>SCUDOMARINE 502MT (100%)+ SCUDOCATALYST 22AF (40%)</b> <b>Shake well before use.</b>				
<b>APPLICATION METHODS</b>	Brush; Roller HVLP Airless spray gun - only PROFESSIONAL USE Nozzle tip 1,3 -1,5 mm Pressure at nozzle (minimum) 300 bar /4351 psi				
<b>OPERATING ENVIRONMENT</b>	502MT should be applied in a clean temperature and humidity controlled environment. Recommended conditions for application are 20 – 25°C (68 - 77°F) and 30 – 60% relative humidity.				
<b>DRYING &amp; CURING TIME</b>	Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal	5° C	10° C	23° C	40° C
	Dried /cured in drying oven at 60°	24h	24h	12h	6h
	Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.	1h			
	Pot life after catalyzer mixing is max 2 hours				
	Temperature limit during application: MIN 10°C - MAX 40°C. Allow product to cure thoroughly before applying the next layer. Product must be perfectly dry before exposure to fog, rain or frost.				
<b>STORAGE INSTRUCTIONS</b>	Packaging	Tin cans 1kg : 5kg : 20 kg			
	Shelf life	Storage temperature min 3°C max 40°C - keep away from direct sunlight			
	Product Stability	SCUDOMARINE 502MT 5 years in original package SCUDOCATALYST 8SC 3 years in original package			
	Safety Instructions	Read MSDS Material safety data sheet carefully before using products			

**SCUDOMARINE™ 502 MT METAL-TOP** is an environmentally safe long life foul-release coating which prevents the attachment of marine growth by low critical surface tension. It does not contain copper or tin compounds, TBT or any other toxic substances which might cause environmental pollution.



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Safety Datasheets

**CAUTION** This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to ChromaMe technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product.

**HEALTH AND SAFETY** Please observe the precautionary notices displayed on the container and on MSDS Material Safety Data Sheets for each product. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought.

**WARRANTY & LIABILITY LIMITATIONS** Information contained herein is accurate to the best of our knowledge. The coating properties and cured coating properties listed herein represent typical values for AF201 and are not meant as specifications. ChromaMe Srls insists that users conduct their own tests for applicability and fitness for any purpose. Statements concerning use of products or formulations described herein shall not be construed as a warranty or license to infringe any patent or trademark, and no liability for infringement arising out of such use is assumed. Please refer to ChromaMe Standard Terms and Conditions or to your Purchase Agreement with ChromaMe for the warranty coverage of ChromaMe's product.