

Technical Data Sheet – Clear Coat

Product Line	PropGuard-X Clear Coat	
Description	<p>Is a high-performance water-dilutable 2K polymeric clear coat, engineered specifically for ship propellers and underwater running gear.</p> <p>Unlike traditional antifouling or foul-release coatings, PropGuard-X does not rely on elasticity or silicone-based release mechanisms. Instead, it forms a hard, ultra-smooth protective surface that resists fouling attachment through surface chemistry and extreme smoothness, rather than flexibility. This results in a coating that is inherently more robust and wear-resistant than conventional antifouling and foul-release systems.</p>	
Real World Advantages	<ul style="list-style-type: none">✓ Best in class adhesion (ISO 2409 Class 0 adhesion on all marine alloys)✓ Superior hydrodynamics and mechanical self-cleaning by rotation✓ Ultra-low surface roughness (RA 0.15–0.20 µm), “smoother and more uniform than a professionally polished bronze prop”✓ Excellent resistance against marine growth, corrosion, cavitation, impact, chemicals and UV light✓ Cures to an exceptionally smooth finish that is harder than metals✓ Pendulum hardness (König), 142 (ISO 1522)✓ Reduced drag (Improved fuel economy)✓ High abrasion resistance (Taber-wear index 10 – very slow wear)✓ Good flexibility (reducing vibrations and noise)✓ High crosslink density (enhanced bonding between coating layers)✓ Zero biocides, zero environmental impact, safe for marine life✓ predictable performance all season	
Intended Use: As finish coat on	Propellers Rudders Propeller shafts Propeller struts Thrusters Trim tabs	Keel coolers Hulls Wooden rails & floors Concrete / cement Metals Fire service pumps
Physical Properties	Mixing ratio: Color / finish: Number of coats: Theoretical coverage: Wet film thickness: Dry film thickness:	As supplied (by volume 77.5:22.5 / by weight 3.65:1) Transparent / gloss 1 (2 coats if time allows) 97 ft ² (=9.0 m ² /liter) 4.3 mils (110µm) 2.0 mils (50µm)

Turn Page

Physical Properties	Volume solids: VOC's (very low): Specific gravity: Curing time:	45 volume percent (= 48 weight percent) 29.6 g/L, compliant with EU Directive Approx. 1.06 kg/dm ³ at 20°C Dust free - approx. 2-3 hours Foot traffic - approx. 12-16 hours Full cure – approx. 7 days
	Overcoating window between subsequent layers:	2 – 16 hours (depending on temperature)
	Pot life: Shelf life unopened: Expected shelf life after opening:	4 hours (depending on temperature) 2 years at 25°C 77°F Base up to 6 months / Hardner up to 6 months
	Solvents: Clean up:	Organic (its water based) With water and afterwards with Brush/spray thinner PU
Recommended Application Tools	See PropGuard-X best practice sheet / Section 4: recommended application tools <i>(Download here: www.dantech-group.com/PropGuard-X)</i>	
Surface Preparations	See the PropGuard-X best practice sheet / Section 2: detailed surface preparation by metal <i>(Download here: www.dantech-group.com/PropGuard-X)</i>	
Mixing and Application	See PropGuard-X best practice sheet / Section 6: mixing and Application <i>(Download here: www.dantech-group.com/PropGuard-X)</i>	
Health and Safety		
Clear Coat	Ensure sufficient ventilation during application and drying. Avoid skin contact by using the appropriate protection like gloves, safety glasses, safety shoes, safety clothing, protective creams, etc. Do not apply with open fire. No smoking. See also the instructions on the label of the product	
Transport	Non-hazardous: By air, sea, road and rail	
Storage	Store in well closed original packaging, cool, dry & frost free.	
First Aid	If swallowed: Give milk or water, seek medical attention. Skin contact: Wash with soap and water Eye contact: Wash with soap and water. Flush with copious quantities of clean water. Inhalation: Remove to fresh air. Seek medical attention.	