

LiquidGlass DTO-30

LiquidGlass DTO-30 is a hydrophobic and oleophobic ceramic nanocoating formulated for boats and yachts. This version of LiquidGlass should be applied by trained technicians after proper cleaning and scratch mitigation. LiquidGlass is a transparent, high-gloss, and slippery coating. The smoothness and low surface energy of this coating makes painted surfaces easy to clean (E2C). LiquidGlass adheres well to painted surfaces. LiquidGlass is colorless, does not alter color and provides a “wet-look”. LiquidGlass is 8H hard, makes paint scratch resistant and lasts up to 4 years.

Technical Data

Form	Liquid
Color	Clear
Flammable	Yes
Density	0.9 g/ml
Soluble in Water	No
Decomposition	> 350°C
Dry film Toxicity	Non-toxic

Hardness testing:

LiquidGlass was tested on 200 µm plastic (PMMA) substrates. The substrate was first plasma cleaned. The sample was rod coated with LiquidGlass DTO to a wet film thickness of 7.5µm. The coated plastic was left to cure at room temperature for over 12 hours. Pencil hardness tests were carried out with a MXBAOHENG pencil hardness test kit and Staedtler Mars Lumograph calibrated pencil set.

Table 1. Pencil hardness and scratch resistance of LiquidGlass DTO films

Tests	Property
500 grams weight pencil:	7-8H Hard
750 grams weight pencil:	6H Hard
1000 grams weighted pencil:	4H Hard

Table 2. Properties of LiquidGlass DTO films cured at 50°C for 30 minutes

Tests	Property
Water contact angle	>100°
Water roll-off	<10° roll-off angle
Mineral oil contact angle	>50°
Mineral oil roll-off	<5° roll-off angle
UV light resistance	No yellowing observed, as good as glass

Application: Wash with soap and water and rinse well. Further cleaning the boat with Isopropyl Alcohol wipes or clay bars to remove dirt and grime is recommended. Scratch removal is also recommended. Wipe-on LiquidGlass using lint-free microfiber suede or microfiber cloth (using a crosshatch pattern), allow to dry for 5 minutes and buff clean with a new soft microfiber cloth.

Curing: Curing at room temperature (indoors) will take up to 48 hours. Curing outdoors on a sunny day exposed to sunlight will take 6 to 8 hours. If possible, heating surfaces to 50°C is recommended.

Videos: <https://www.facebook.com/vesselclean/videos/323460805204399/>, <https://youtu.be/PuzjMcq-txE> and <https://youtu.be/ZO-20Sih8qg>

Caution: Avoid breathing fumes. Apply in well-ventilated area.



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