

COOLBLACK

2-pack cool marine finishing paint with low heat absorption



The printing process may render some of the colour samples imperfectly. We recommend testing the paint before committing to a colour.

PRODUCT DESCRIPTION

COOLBLACK 2-component enamel is an innovative Nautix paint designed for use in a demanding context such as the marine environment. This black polyurethane finishing paint, once applied over white 2-component paint like U2 or L2, forms a full system which can be overcoated with 2-component varnish (VA2) (U2) to offers better protection to existing coatings.

Thanks to its special pigment, heat absorption is reduced by 35% compared to normal black PU paint. Nautix COOLBLACK will offer long-lasting protection by protecting dark composite structures from excessive heating conditions and avoiding post-baking issues.

Here are some advantages :

- Moving bare-footed and climbing on masts without being burned.
- Better insulation and a cooler atmosphere in the cabin (reduction of air conditioning needs).

Technical background : Normal black carbon pigments absorb infrared rays (IR) resulting in temperature increase of the substrate. COOLBLACK technology use IR transparent black pigments. IR cross the black topside and are reflected by the white paint (U2 or L2).

PRODUCT INFORMATION

Finish	High gloss
Mixing ratio in volume	3 base / 1 hardener
Mixing ratio in weight	4 base / 1 hardener
Coverage	10m ² /L per layer (100µm wet)
Flash point	23°C <FP<55°C
Packaging	0.75L - 2L
Shelf life	5 years
Thinner/Cleaner	Nautix DP
Colours	black

Drying / Overcoating Information

Temperature (°C)	10°	15°	20°	30°
Pot life	10h	8h	6h	4h
Touch dry	4h	2h30	1h30	1h
Overcoated* (by 2-comp PU paint)	5h-15h	2h30-8h	1h30-4h	1h-3h
Sand after	30h	20h	12h	10h
Fully cured	96h	72h	30h	20h

*Overcoating period recommended for 1 layer (100µm wet thickness max) –Refer to Application/Important points
d=days h=hours

TYPE OF SURFACES

- All types

COOLBLACK PAINT SYSTEM

The surface must be dried and degreased before application. Check TDS for more information.

Application and preparation of 2-comp PU paint (U2 or L2)

- Substrate must be prepared with U2 or L2 white paint.
- Read Nautix technical data sheets for more details.
- Rough sand with P240-P400 grit to favour adherence. Rinse and let dry.

Coolblack

- Specific application information is described on next point.
- To be efficient, Coolblack dry film thickness must be around 40-50µm.

Finish

- For a super gloss or a mat finish and a better protection, we strongly recommend to overcoat with a VA2 Nautix varnish.

Application advices

- Substrate must be painted with U2 white undercoat or L2 white enamel.
- The support should be sanded with P240-P400 grade paper.
- Enamel application should be done far away from dust.
- Strictly respect drying time before recovering.

Compatibility

Please refer to related products Nautix technical data sheets if you need any further information.

SAFETY INFORMATION

- Work in well-ventilated area (ensure adequate ventilation during use), wear suitable protective clothing, gloves, glasses and eye/face protection. Unprotected person must be kept away from treatment area. Dispose of protective gloves and equipment after use.
- Hazardous paint for professionals only. Read the label safety section for Health and Safety Information before application.

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HINTS

- Application methods: Conventional spray gun (for professionals only).
- Apply between 10 and 30°C (ideally inside with hygrometry rate no greater than 85%).
- Do not apply when there is a chance of condensation forming on the substrate (Dew-Point) : substrate, ambient air and product temperatures must be close.
- While opening the can, be careful with possible high pressure may cause gush of hardener.
- Stir or shake individual components thoroughly. Add hardener to the Base, stir and leave for 10 minutes to allow bubbles to disperse.
- Mix only the necessary quantity.
- Do not apply this paint at the end of the day because air moisture could cause loss of gloss.
- Respect carefully overcoating time before varnish
- Favour natural solvent evaporation and do not heat ambient air after beginning of application. Do not use ventilator or heater directed on the surface.

APPLICATION

Conventional spray gun – For professionals only

- Apply 1 or 2 layer(s) according to application equipment.
- 2.0 bars, nozzle 1.2 – 1.5mm.
- Thinning (volume) : Nautix DP up to 20%.

Number of coats : 1 minimum
Theoretical coverage per layer : 10m²/L
Recommended WFT* per layer : 100µm maximum
Final recommended DFT** : 40-50µm

*WFT : Wet Film Thickness / **DFT : Dry Film Thickness

TRANSPORT, STORAGE, AND SAFETY INFORMATION

Transport and storage

- This product should be kept in securely closed containers during transport and storage.
- Exposure to air, sun, and extreme temperatures should be avoided. For the full shelf-life of the paint, be sure that the container is firmly closed between use and the storage temperature is between 10° and 25°C. Keep out of direct sunlight.

Safety

- Before use, read the label safety section for Health and Safety Information. For further details, please contact Nautix or its distributors.
- All professional operators must wear suitable protective clothing : coveralls of a contrasting colour to the product being applied, underneath a disposable coverall with hood, suitable gloves and impervious footwear that protects the lower leg. Wear suitable respiratory equipment (such as air fed respiratory protective equipment with combined protective helmet and visor) when spraying.

Disposal

Disposal of remainders must be arranged for in consultation with the authorities. Do not discard tins or pour paint into water courses, use the facilities provided. It is best to allow paints to harden before disposal. Remainders of this product cannot be disposed of through the municipal waste route or dumped without permit.

General

The information given in this sheet is not intended to be exhaustive. Any person using the product without first making further written enquiries as to the suitability of the product for the intended purpose does so at their own risk. Nautix can accept no responsibility for the performance of the product or for any loss or damage. The information contained in this sheet is liable to modification from time to time.

