



Two-Component Polyurethane Finish Enamel

NATURE AND USE

Polyurethane top-coat enamel, formulated with fine polyester resins and special aliphatic Isocyanate hardeners, which give the product superior gloss, fullness and color retention over time.
An ideal product as a top-coat to finish nautical industry protection cycles (both live and dead boat work), "Nautilus Poly Mark III" has excellent mechanical, adhesion, chemical and weathering resistance.
The satin matte version is recommended for interior use as it is more prone to alteration of appearance.

TECHNICAL FEATURES

Type of Binder:		Polyurethane
Specific weight A+B:	Kg/l	Glossy or Matte 1.10 - 1.40 ± 0.10 @ +20°C (depending on color chart)
Solids by Weight:	%	70±5%~ (depending on color chart) A+B
Solids by Volume:	%	55±5%~ (depending on color chart) A+B
Mixing Ratio by Weight:		100 parts Base / 25 parts Hardener
Mixing Ratio by Volume:		3 parts Base / 1 part Hardener
**Pot life @ +20°C:		~ 4 hours
Color/appearance of applied film		Colored polish (see chart) Satin matte (White, Black) for interiors

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PREPARATION OF THE PRODUCT

Homogenize both Base and Hardener separately in the original supply containers. Mix in the correct proportions of Base and Hardener catalysis, stirring the resulting mix until completely homogenized; allow to stand for an additional 10 minutes and then proceed with application.

** The "POT-LIFE" time in two-component materials (service life of the Base + Hardener mixture), decreases exponentially as the product temperature increases.

Note: Using a paint mix (base + hardener) beyond the time of POT-LIFE will irreparably compromise all the characteristics of the coating film.**

FEATURES APPLICATIONS

Application:		Conventional spray Roller, Brush
Dilution:	%	15 - 30 for spray application
	%	10 - 25 for application by Brush, Roller Different dilutions may be needed depending on substrate absorption and thickness required
Diluent:		PUR11 for spray application SINT71 for application by Brush, Roller
Cleaning:		PUR11
Hardening @ +25°C :		Out of dust: 3-4 hours Sandable after at least 36-48 hours Full-cured in 7 giorni
Overpainting @ +20°C:		16 – 24 hours
Application environment temperature:		Between +5°C and +35°C
Suggested product temperature:		+20/+30°C
Temperature of the substrate:		Between +5°C e +40°C and in any case always +3°C/+5°C higher than the dew point
Relative humidity:		≤ 80%
Typical coating thickness:		60-80 µm dry (DFT), achievable in two coats
Theoretical yield:	m ² /l	11.0 per coat at a dry film thickness of 50 µm DFT

HANDLING, STORAGE AND SECURITY

Warning:

For any handling and/or use activities of the material and its components, strictly adhere to the directions given in the MSDS (Base and Hardener). The following warnings are common sense, are not exhaustive and do not replace what is prescribed in the individual specific MSDS safety data sheet for the product.

Handling:

The material is suitable for use only by qualified and properly trained professional personnel.

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Any operation involving the use of the product must always be carried out in accordance with national standards, regulations and laws relating to Health, Safety and the Environment.

Precautions:

When the product is to be used inside enclosed spaces (rooms, containers, etc.), it is imperative to provide by appropriate means for adequate air circulation, which must be maintained throughout the entire period of application and polymerization of the coating, also to avoid conditions that could lead to potentially explosive situations.

All electrical installations, however, must always be grounded. Where or when there is a danger of explosion, operators should use non-ferrous tools, non-sparking shoes and clothing and explosion-proof machinery.

Storage/Transportation:

Store away from flames, sparks, heat sources and out of direct sunlight.

Store indoors in the original sealed containers, in a cool, ventilated, dry place, at temperatures not higher than +35°C and not lower than +5°C.

Shelf-life:	Base	12 months in the recommended storage conditions (original sealed containers)
	Hardener	6 months in the recommended storage conditions (original sealed containers)

**Note: product intended for professional use
and exclusively for uses not regulated by Legislative Decree No.161/2006.**

Consult the Safety Data Sheet