

# POLYURETHANE ENAMEL 843

Indoor - Outdoor - Gloss

**TITAN**



Product Code: 843

## Description

Two-pack polyurethane based on an acrylate and an aliphatic isocyanate. It has an excellent resistance to weathering, and a good resistance to yellowing and loss of gloss. It has also good adhesion on different non ferrous metals and on certain galvanised surfaces.

## Fields of Application

Steel structures, machinery and industrial equipment. It has excellent durability and appearance. It can also be directly applied on reinforced polyester with glass fibre.

## Technical Data

<b>Product Type</b>	Aliphatic polyurethane
<b>Finish</b>	Gloss
<b>Colour (UNE EN ISO 11664-4)</b>	White + Clear Base 0597, Yellow Base 0598 and White Base 0599
<b>Density (UNE EN ISO 2811-1)</b>	1.13 - 1.17 Kg/L
<b>Coverage</b>	11 - 14 m <sup>2</sup> /L (30 - 35 dry $\mu$ )
<b>Drying at 23°C 60 % RH (UNE 48301)</b>	3 - 4 hours
<b>Recoat time at 23°C 60% RH (UNE 48283)</b>	Minimum 24 h - Maximum 7 days
<b>Mixing Rate</b>	Base: 4 parts - Hardener: 1 part
<b>Pot Life at 23°C</b>	4 hours
<b>Methods of Application</b>	Brush, Roller, Spray-gun, Airless( The data quoted for Airless application are only hints)
<b>Thinning</b>	Brush: 5%, Roller: 0 - 5%, Spray-gun: 10 - 15%, Airless: 0-5%
<b>Nozzle Diameter</b>	Spray-gun: 1.7 mm. , Airless: 0.011" - 0.015"
<b>Nozzle Pressure</b>	Spray-gun: 3-4 bar. , Airless: 175 bar.
<b>Thinner</b>	874 Thinner
<b>Equipment Cleaning</b>	874 Thinner
<b>Recommended Thickness (UNE EN ISO 2808)</b>	60 - 70 dry microns (in two coats)
<b>Application Temperature, RH&lt;80%</b>	+10°C - +30°C
<b>Flash Point (UNE EN ISO 3679)</b>	Base: 26,5 °C / Endurecedor: 30,5 °C
<b>Volume Solids (UNE EN ISO 3233-3)</b>	39 - 40 %
<b>VOC (UNE EN ISO 11890-2)</b>	520 g/l
<b>Pack sizes</b>	White: 5 l / White and Clear Base: 10 l, 4 l, 750 ml / Yellow Base: 4 l

Variations in temperature, humidity, thickness, tinting or surface type, etc. may lead to changes in drying, in coverage or in other properties.

## Directions for use

### GENERAL REMARKS:

The surfaces to be painted have to be clean, dry and sound, as well as free from dust, grease and oil. Carefully stir the product in the can, preferably with a mechanical shaker. Let the mixture to dry for 10 - 15 minutes before using it in order to help to remove air.

### BARE SURFACES:

**Steel, iron, wood, aluminium and non-ferrous light alloys:** Prime with Anti-rust 831 or 832 Epoxy. In case of non-ferrous metal, they can be also prepared with one coat of 871 Phosphatizing Wash Primer.

**Galvanised iron:** Degrease and directly apply one coat. Repaint according to instructions of the present technical sheet. Depending on the galvanised type, it will be necessary to open pores.

**Polyester:** Degrease with 874 Thinner, and directly apply one or two coats.

**Other surfaces:** Consult your dealer.

In all cases:

Moderately corrosive atmospheres: 60 - 70 microns.

Highly corrosive atmospheres: 70 - 105 microns

### MAINTENANCE OF PREVIOUSLY COATED SURFACES IN GOOD CONDITION:

If overcoating on well adhered systems, remove grease, oils and dirt (by freshwater jet, solvent etc.) Afterwards let to thoroughly dry and apply one or two coats of 843 Polyurethane Enamel, depending on requirements.

### MAINTENANCE OF PREVIOUSLY COATED SURFACES IN POOR CONDITION:

For poorly adhered systems and/or showing rust, remove them by manual or mechanical cleaning. Patch with a suitable primer, preferably by brush and apply one or two coats of 843 Polyurethane Enamel, depending on requirements.

In highly or very highly corrosive atmospheres (C4 or C5 according to ISO INE EN ISO 12944), an intermediate coat of 832 Epoxy Primer will be required before the topcoat with 843 Polyurethane Enamel

## Precautions

Always read the pack label before use. For more information, please refer to the Safety Data Sheet.

Store in tightly closed containers protected from sources of heat and temperatures below 0°C. Shelf life: 36 months in original unopened packaging.

**Waste management:** Follow local legal regulations. Help to protect the environment, do not empty into drains, dispose of this material and its container at hazardous or special waste collection points. Calculate the amount of product you will need to avoid waste and extra costs. Collect the leftover material and keep it well stored for a new use.

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Any technical sheet is automatically cancelled by a subsequent sheet or five years after the issue date. We guarantee the quality of our products. However, we disclaim any liability in relation to factors other than the coating itself or in relation to an unsuitable use or application method. In case of doubt, please refer to our technical service before applying the products.



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