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Fully paid-up share capital  
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Legal title  
no. 26 dated 20 May 1944

COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001

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## 64200002 POLIDUR LUCIDO BASE NEUTRA glossy industrial polyurethane finish



A two-component glossy polyurethane enamel, to be used as a finishing coat in industrial coating cycles.



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<b>Date of revision</b>	04/07/2022
<b>Composition</b>	A two-component product with a polyurethane resin base and an aromatic or aliphatic isocyanate hardening agent, with chemical cross-linking.
<b>Main properties</b>	<ul style="list-style-type: none"><li>• versatile and easy to apply</li><li>• high gloss</li><li>• high hardness and elasticity</li></ul>
<b>Applications</b>	As a finish in coating cycles for new constructions or for maintenance. Can be used in both interiors and exteriors depending on the catalyst used. Suitable for metal works, mechanical industries and petrochemical plants.
<b>Colour</b>	It can be coloured with the Colormaker Professional tinting system. The colours are available in the Colormaker Lab software.

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<b>Technical specifications</b> (data measured at 20°C, with 65% R.H.)	<b>Reference</b>	<b>UoM</b>	<b>Value</b>
Specific weight (pycnometer)	C022	g/cm <sup>3</sup>	1.13 ± 0.10 (coloured)
Ford viscosity no. 8	C076	s	14 ± 2 (coloured)
Gloss 60° (instrumental control)	C005	Gloss	> 90
Dry residue	C033	%	57 ± 2 (coloured)
Dry residue by volume (A+B)		%	40 ± 2 (coloured)
Recommended DFT	ISO 2808	µm	40-45
Recommended wet thickness		µm	100-110
Theoretical coverage (A+B)		m <sup>2</sup> /l	10-11 at the recommended thickness.
Theoretical coverage (A+B)		m <sup>2</sup> /kg	9-10 at the recommended thickness.
Practical coverage			Consider an appropriate loss factor.

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### Method of use

. Surface and application conditions	Ambient temperature min. +5°C / max. +35°C and R.H. < 70%. Temperature of the support min. +5°C / max. +35°C and at least 3°C above the dew point.
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- . Catalysis ratio                                POLIDUR LUCIDO BASE NEUTRA: Catalyst 94200250 for indoor use  
Catalyst 94200301 for outdoor use  
100:50/60 by volume depending on the shade  
100:50 by weight  
Further catalysis options available, contact the Technical Support Service.
- . Pot life    3-4 hours at 20°C
- . Application method                            Airless, spraying, brush
- . Thinner    93200013 Diluente per Polidur  
93200017 Diluente per Polidur (summer)
- . Dilution     Airless 0-3%, spraying 0-7%, brush 0-5%
- . Airless application                            Recommended Usable nozzles 0.009-0.011"  
Misting pressure 120-180 atm  
Compression ratio 30:1 (min.)  
The data for airless spraying is purely indicative and subject to adjustments.  
The filters must be suited to the nozzle used.
- . Application by spraying                      Recommended Usable nozzles 1.2-1.8 mm  
Misting pressure 3-4 atm  
The data for spraying is purely indicative and subject to adjustments.
- . Brush application                              Suitable                Only over reduced areas.  
Normally it is possible to achieve 30-35 microns.
- . Mixing    This product is supplied in two different containers.  
1) Mix POLIDUR LUCIDO BASE NEUTRA (Part A) with a mechanical mixer;  
2) Add the catalyst (Part B) and mix together with a mechanical mixer;  
3) Dilute according to the instructions.  
After mixing, the product must be applied within the specified pot life.

. Hardening time

Temperature	Dry to touch	Dry-hard	Final polymerisation time
5°C	5 hours	72 hours	10 days
20°C	2 hours	36 hours	7 days
30°C	75 minutes	24 hours	4 days

The data of the table refers to the use of the aromatic catalyst 94200250; if the aliphatic catalyst 94200301 is used, the hardening times may be longer. Values referred to recommended DTF and 65% R.H. High thicknesses, insufficient ventilation or low temperatures require longer hardening times. Minimum self-overcoating interval: 30 minutes @ 20°C room temperature. Maximum coat-over time: 2 months.



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## Precautions and warnings

- make sure that no catalysed product remains inside the spray gun or in the painting plant;
- once the product's pot life has expired, the product is no longer usable;
- only the specified thinners must be used; refer to the "Method of use" technical data sheet section under the item "Thinner". The use of other solvents, especially for recovery, may impair the chemical and physical properties of the varnish film;
- try to prevent condensation effects during or immediately after application (including weather-related events), to ensure that the varnish film forms correctly;
- do not apply to thicknesses of more than 80-90 microns DFT per coat, to prevent superficial defects from forming;
- this product cures with difficulty below 5°C; for optimal performance of the varnish film, temperatures above 10°C are recommended;
- if you wish to paint over POLIDUR LUCIDO BASE NEUTRA that has been exposed outdoors for a long time, make sure you remove any dirt and/or contaminants; depending on the chosen coating cycle, sanding may be required;
- POLIDUR LUCIDO BASE NEUTRA attains its maximum chemical and physical performance upon the final polymerisation (see "Hardening times" table);
- the 94200250 catalyst is sensitive to humidity. Even minute traces of water will reduce its duration and cause defects in the coating film.

## . Cleaning of equipment

Clean the equipment immediately after use with one of the following thinners: Diluente per Polidur 93200013 or Diluente Nitro 92100012.

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## Surface preparation

POLIDUR LUCIDO BASE NEUTRA should be applied on surfaces already treated with an appropriate primer. The primer surface must be clean, dry and free from contaminants. After prolonged exposure to weathering, before re-coating, clean the surface thoroughly with a pressure wash using soft water and allow to dry. Comply with the overcoating times specified in the technical data sheets. If the primer has deteriorated or is damaged, recondition the surface to be painted using mechanical means and coat it over again with primer, if necessary.

## Application cycle

Apply one or two coats on top of epoxy or polyacrylic primers (series 6120 Epotec, 6122 Epo Primer, 6126 Epogard HS, 6223 Policril Primer).

## Compatibility of cycles

For outdoor applications, we recommend using the yellowing catalysts 94200301 with 50% catalysis, or 94200281 with 25% catalysis.

POLIDUR LUCIDO BASE NEUTRA can be coated over with itself.

For further details, contact the Colorificio Sammarinese S.p.A. Technical Support Service.

## Storage

Store between +10°C and +35°C. The product can be stored for 24 months in its original packaging. After this time, you must check the condition of the product. The catalyst can be stored for 6 months in its original packaging.

## Warnings and safety

This product is provided only for professional use and for professional application technicians.

We recommend always referring to the product Safety Data Sheets for details relating to health and safety and for the storage and disposal rules.

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This information is the result of our practical experience but is purely indicative. For more detailed information, please contact our technical support service. This sheet annuls and replaces any previous versions.