

# Technical Data Sheet NR 9849

## TRANSPARENT WATER BASED POLYURETHANE SEMI GLOSS TOP COAT

Creation date: 01/09/98 Revision date: 9/7/2014, version 3

ICA S.p.a. Via S. Pertini n. 52, Zona Ind.le A 62012 Civitanova Marche (MC) - Italy  
Tel. +39 0733 8080 Fax. +39 0733 808140

PRODUCT: AO472 TRANSPARENT WATER BASED POLYURETHANE SEMI GLOSS TOP COAT

DESCRIPTION: Transparent anti-yellowing water based polyurethane semi gloss suitable for top coats on indoor furniture.

USE: Indoor furniture and fittings

### SPECIFICATIONS OF SUPPLIED PRODUCT

Physical state: Milky liquid  
Solid content %:  $33 \pm 2$

Gloss:  $55 \pm 3$  gloss  
Minimum temp. of film formation:  $15^{\circ}\text{C}$

SUBSTRATE: Solvent and water based polyurethane base coats, polyester and UV base coats, all sanded with grain 280-320 abrasive paper.

APPLICATION: By spray with normal spray guns (airless, airmix, pneumatic). Due to the high viscosity of the product atomisation can be improved by using smaller nozzles than those usually used with solvent based products. Use curtain coaters with gear pumps and cartridge filters so as to reduce the air in the product. The application on porous base coats could cause air bubbles that are not able to explode. In this case add the anti-bubbling agent for water based coatings AD31 (quantity 0,5-1%) During spray or curtain coater application maintain a constant viscosity from 30 to 45 seconds FORD CUP 4 (measured without foam).

HARDENER: CA500 at 10% in weight, mixed mechanically. If a longer pot life is required, or a simpler incorporation of the catalyst, or during summer, it is possible to catalyse with CA508; in this case the chemical-physical characteristics of the film of paint will be slightly inferior.

DRYING:  
Touch dry: 60-90 minutes at  $25^{\circ}\text{C}$  and 60% R.H.  
Stackable: vertically, wait 24 hours at  $25^{\circ}\text{C}$  and 60% R.H.

DILUTION: With demineralized water up to 15% in weight of the total amount of the mixture.

QUANTITY TO APPLY: 80-130 g/m<sup>2</sup>

NUMBER OF COATS: Maximum 2

INTERVAL BETWEEN COATS: From 1 to 3 hours at  $25^{\circ}\text{C}$  and 60% R.H.

POT LIFE at  $20^{\circ}\text{C}$ : 4 hours catalysed at 10% with CA500 and diluted at 10% with water.

### EXAMPLES OF PAINTING CYCLE:

Open pore cycle on stained ash wood:

spray application of water base stain from the CNA series. Drying at  $25^{\circ}\text{C}$  for at least 3-4 hours. Application of FA42-CA500 diluted at 10% with water, quantity 130 g/m<sup>2</sup>. Drying at  $25^{\circ}\text{C}$  for 3-4 hours, and light sanding with spaced grain 320 abrasive paper. Application of the top coat AO472-CA500 diluted at 10% with water, quantity 120 g/m<sup>2</sup>.

STORAGE INFORMATION: Store at temperatures above  $5^{\circ}\text{C}$  and below  $35^{\circ}\text{C}$ .

SHELF LIFE AT  $20^{\circ}\text{C}$ : 6 months in correctly stored unopened tin

NB:

- Apply at temperatures above  $15^{\circ}\text{C}$  and maximum 65% relative humidity.
- Can be catalysed at 9,5% in volume with CA500, but before adding the catalyst check that there is no air in the product as this could falsify the catalysis ratio.
- Can be coloured with our water based concentrated stains from the CNA series (max.5%).
- Do not use preheaters as this would noticeably reduce pot life.
- Do not use after 4 hours from mixing even if the product still seems applicable.
- When the application and drying temperature is above  $30^{\circ}\text{C}$  use only CA508

### SPECIFICATIONS OF SUPPLIED PRODUCT CHARACTERISTICS UNITS

CHARACTERISTICS	UNITS	VALUE	METHOD
Specific gravity at $20^{\circ}\text{C}$ :	g/ml	$1.04 \pm 0.05$	MP01

AO472/3

Pagina 1 di 2

## Technical Data Sheet NR 9849

### TRANSPARENT WATER BASED POLYURETHANE SEMI GLOSS TOP COAT

Visc. Iso C. 6 at 20°C:	sec	105 ± 15	MP04
Fineness:	µm	25 max.	MP12
pH value:	/	7.2 ± 0.5	MP13

---

The quality control value of the viscosity refers to the product immediately after checking. Any variations of the data specified in the technical data sheet could be due to circumstances such as length and conditions of storage.

Always verify the suitability of the product for the job to be done before application. We can not accept responsibility for the outcome.

The information contained in this technical data sheet, as well as any verbal information, is given to the best of our knowledge. We do not accept responsibility for obsolete or incorrect information. The information is to be considered obsolete when a new technical data sheet is issued. Please feel free to contact us to request the latest edition.