

Technical Data Sheet NR 12831

TRANSPARENT ANTI-YELLOWING BICOMPONENT WATER BASED POLYURETHANE GLOSS

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PRODUCT: AL752 TRANSPARENT ANTI-YELLOWING BICOMPONENT WATER BASED POLYURETHANE GLOSS

DESCRIPTION: transparent anti-yellowing bicomponent water based polyurethane gloss. The product has excellent body, gloss and transparency, comparable to those of a solvent based polyurethane gloss. good hardness of the film both on the surface and in depth.

USE: furniture, indoor fittings

SPECIFICATIONS OF SUPPLIED PRODUCT

Physical state: milky liquid
Solid content %: 25±2%. Cat. at 30% with CA507 36±2%

Gloss: 90 ± 5 glossmetre 60° gloss
Hardness: Konig pendulum hardness 7 days at 23°C 40-60% R.H. Cat. at 30% CA507 (140")

Chemical agents resistance: good
Light fastness: excellent

SUBSTRATE: mono and bicomponent water nad solvent based polyurethane base coats, polyester base coats, UV base coats, all suitably sanded

APPLICATION: by spray with pneumatic or airmix pistols. Apply max. 160 g/m² per coat. If necessary to apply a second coat, wait 4-6 hours at 25°C and 50% R.H. Take care of the drying conditions of the product. The best results, such as hardness of the film and consequent stacking, are obtained with temperatures above 20-22°C and R.H. below 50%. Do not apply the product in temperatures above 30°C, in the flash off phase the air speed must be less than 0.3 m/sec. to avoid problems of pinholes caused by the reaction gas. If it is necessary to improve vertical adhesion add 0.2-0.5% of AD110 thickening additive.

HARDENER: CA507 at 30%. It is preferable to incorporate the catalyst mechanically using a suitable mixer (code 006D08001)

DRYING:
Completely dry: the product hardens in 7-10 days if dried at ambient temperature, but can be polished mechanically after 72 hours if dried in a hot air tunnel

DILUTION: not necessary

QUANTITY TO APPLY: 100-160 g/m² per coat

NUMBER OF COATS: maximum 2

POT LIFE at 20°C: 2 hours at 25°C

EXAMPLES OF PAINTING CYCLE: gloss cycle on transparent UV base coat sanded with grain 400-500-600 paper. the product can be applied in a single coat (150-160 g/m²) as follows:

- 1) flash off 60 minutes at ambient temperature (ventilation max. 0.2-0.3 m/sec.)
- 2) drying at 40-50°C for 2 hours
- 3) drying for 3 days preferably in a heated environment at 20-25°C and 40-60% R.H.

After this time the product can be polished mechanically.

If there is not a heated environment for drying it is necessary to prolong drying times before mechanical polishing.

The product can also be applied in two coats (max. 120 g/m² per coat) as follows:

- 1) flash off 60 minutes at ambient temperature (ventilation max. 0.2-0.3 m/sec.)
- 2) drying at 40-50°C for 2 hours (alternatively 4-6 hours at 20-25°C and 40-60% R.H.)
- 3) application of second coat after cooling of the surface
- 4) flash off 60 minutes at ambient temperature
- 5) drying for 2 hours at 40-50°C
- 6) drying for 3 days, preferably in a heated environment at 20-25°C and 40-60% R.H.

After this time the product can be polished mechanically.

STORAGE INFORMATION: the product can not stand freezing. Store at temperatures aboe 5° and below 35°C

SHELF LIFE AT 20°C: 6 months in correctly stored unopened tin

NB:

- apply the product at temperatures above 15°C and with max. 65% R.H.
- mix the catalysed product for at least 60" with a mixer with toothed spindle. In the mixing container a homogenous vortex should form. Do not use preheaters as this would noticeable reduce pot life.
- do not use after 3 hours from mixing, even if the product still seems applicable.

AL752/1

Pagina 1 di 2

Technical Data Sheet NR 12831

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NOTES: These values are provisional. Precise specifications will not be available until emission of the final TDS.

SPECIFICATIONS OF SUPPLIED PRODUCT

| CHARACTERISTICS | UNITS | VALUE | METHOD |
|---------------------------|-------|-------------|--------|
| Specific gravity at 20°C: | g/ml | 1.03 ± 0.05 | MP01 |
| Visc. F.C. 2 at 20°C: | sec | 50 ± 5 | MP04 |
| Visc. F.C. 4 at 20°C: | sec | 20 ± 4 | MP04 |
| pH value: | / | 7.5 ± 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.