



www.zetagi.it

zetagi

Veneziani

WOOD PROTECTION

Issued 02.10.2013

1. Product name

RETRON Finish "W" 20 gloss code 615380

2. Description

Water based two component polyurethane finish.

3. Main features

Water based flat two component polyurethane finish formulated with hydroxylate acrylic resin, to be cross linked only by aliphatic isocyanate hardener code 730030.

Particularly suitable as a finish for the painting of furniture and related products; excellent resistance to scratching and to products for the cleaning of the house. The type of resins, along with the remaining components of the formulation, give the film undisputed behavior towards the yellowing due to sunlight, and good flexibility. To be applied, after roughening by sandpaper, on top of RETRON Primer code 615270. Also suitable for MDF, briar and cherry wood. Store the product in cans not containing metals such as iron, copper, zinc, aluminum and their alloys.

4. Recommended use

Suitable for the coating of furniture and alike, as described above.

5. Technical data

Type	Internal method	Standard	Meas. unit	T Ref.	Value
Specific gravity	MS 018	ASTM D1475 ISO 28811-1;1997	kg/dm ³	23 °C	1,03 ±0,05*
Solid content <ul style="list-style-type: none">▪ Base▪ mixed		UNI EN ISO 3251	% p/p		32 ± 2* 38 ± 2*
Viscosity (Brookfield spindle 1) 0.5 RPM	MS 007		mPas	23 °C	4000-5000**

6. Application data

Finish: flat, 15-20 gloss

Color: clear

Suggested DFT: 35 ÷ 45 µm.

Theoretical consumption: 90 ÷ 120 g/m² mixed with 730030 curing agent.

Practical spreading rate: roughly 30% lower than the theoretical by airless application ***.



www.zetagi.it

zetagi

 **Veneziani**

WOOD PROTECTION

7. Application method

Equipment: airmix spray or electrostatic airless and systems HVLP (high volume low pressure). The cross linking reaction between the base and the curing agent 730030 is in competition with the one between the catalyst and water, so the balance between the two reactions is unstable. The use of guns mixing the two components prevent the features of the painted pieces to vary depending on the time elapsed between the full cure and the application. This way the degree of cross linking is optimized and the reaction made repeatable.

Thinning: not necessary, if required up to 10% potable water.

Drying time:

- Touch dry approx. 4h at 20 °C and 50% RH
- Hard dry approx. 10 h - 15 h at 20 °C and 50% RH
- Fully cured approx. 24 h at 20 °C and 50% RH

Number of coats: 1 or 2 coats as described above.

Application conditions: application suggested between 15 °C and 30 °C, RH<50% and good ventilation.

Pot life: max 60' at 20 °C if no direct mixing guns are used.

Mixing ratio: 100:12 by weight with curing agent "W" "A" code 730030
100:10.6 by volume

Overcoating time: it can be over coated by itself after 24 h from the application and suitable sandpapering

It can be applied, in the following **CATAS CQA** certified paint system (UNI 11216-2006), for horizontal surfaces for kitchen and bathroom furniture. The same paint system pass test required from IKEA for class R2 of the IOS-MAT 0066, version AA-163938-8.

Resistance to dry heat EN 12722:2009

Surface resistance to cold liquids EN 12720:2009

Resistance to fat on surfaces with scratches IOS-TM-0002/2- vers. 8

Safety of toys (UNI EN 71-3:2002- part 3: migration of certain elements)

- Retron Primer "W", code **615270** mixed by 12% curing agent 730030 (application by airless or electrostatic airless or airbrush)
Weight 90-20 g/m² - Drying time: 24 h at 20 °C and 50% RH
- Sandpapering after 24 h by sandpaper grit 240-280
- Retron Finish "W" 20 gloss, code 615380 mixed by 12% curing agent 12% 730030 (application by airless or electrostatic airless or airbrush)
Weight 90-20 g/m² - Drying time: 24 h at 20 °C and 50% RH
Relativa

8. Available colors

Clear



www.zetagi.it

zetagi

 **Veneziani**

WOOD PROTECTION

9. Storage indications

Shelf life: 12 months, provided the cans are kept sealed and undamaged, into a cool and dry place with temperature between 5 and 35°C.

Susceptible to frost damage.

10. Available packing

Standard packing 4 and 25 kg. For different needs, please contact us

11. Safety precautions

For professional use only. For health and safety information, please refer to the relevant Material Safety Data Sheet.

12. Notes, warnings and other information

Given the large number of factors that influence the painting process and our inability to control the use of the product itself, we can accept no responsibility for the final result.

** parameters subject to testing for each batch.

*** indicative value, as it is dependent on numerous factors unrelated to the product, such as the size of the object, the conditions of the surface, the type and conditions of application

NB: the product conforms to Law Decree 27 March 2006 n.161;

It belongs to category j) High performance two component paints

VOC value lower than legal limit

VOC legal limits are 140 g/l from 01/01/2010.

This Product Data Sheet has been written according to UNICHIM 1633 method

The information in this data sheet about the use of our products are based on our present scientific knowledge and practice. Zetagi accepts no commitment and / or responsibility on the final result of the work with our products. It is the customer's responsibility to verify the suitability of our products for the intended use. All the products and the advice given are subject to our general conditions of sale which we recommend you to request and read carefully. This data sheet replaces and annuls the previous ones: it is the user's responsibility to ensure that this sheet is updated prior to using the product. This data sheet is a translation; the Italian text of this document shall prevail over any translation thereof.