

Renner Italia S.p.A. Via Ronchi inferiore, 34 40061 MINERBIO (BO)

## YL-M643/--XXX

MONO-BI COMPONENT WHITE WB BASECOAT

Main Properties:

| <ul> <li>Suitable for all kind of wood as well as M.D.F.</li> </ul> |  | Elevate insulating and covering power |                                      |  |
|---|--|---------------------------------------|--------------------------------------|--|
| Long pot-life after   | Long pot-life after catalysis     Sandable with a        |                                       | tomatic sanding machine              |  |
| Versions:   |  |                                       |                                      |  |
| M643/C02  | white  |                                       |                                      |  |
|   |  |                                       |                                      |  |
| Recommended use:  | General purpose     M.D.F. substrates                    |                                       | <ul> <li>Turned parts</li> </ul>     |  |
| Application method:   | Spray (conventional, airless, air r waterborne products. | mix). Electrostatic guns may be us    | ed provided they are suitable for    |  |
|   | Catalyze with YCM401 or YC I                             | M402 at 4-8%. Once catalised, the     | e product has a pot life of 3 hours. |  |
| Blending instructions:  | Ready to use if one component.                           |                                       |                                      |  |

| Chemical-physical characteristics (23 °C) |             | Application properties                             |                   |  |
|---|-------------|--|-------------------|--|
|   | C02         | Vertical application (wet µm)                      | 200               |  |
| Solid contents (%)                        | 50 ± 2      | Recommended N° of coats                            | from 1 to 3 coats |  |
| Specific gravity (g/cm <sup>3</sup> )     | 1,25 ± 0,05 | Recommended application weight (g/m <sup>2</sup> ) | min: 150 max: 250 |  |
| Viscosity DIN 6 (s) 23°                   | 50 ± 10     | Interval between coats                             | 2 hours           |  |
| рН  | tra 7 e 9   | Spreading rate (m <sup>2</sup> /litre)             | 6 - 10            |  |

|  | General coating | g system recommendatio   | ns                                  |            |  |
|--|-----------------|--------------------------|-------------------------------------|------------|--|
| Drying at 20°C and 45 – 65 RU%: 160 g/m <sup>2</sup> |                 |                          | Forced drying: 160 g/m <sup>2</sup> |            |  |
| Dust free  | 30 minutes      |                          | Temperature                         | Time       |  |
| Handling   | 60 minutes      | Flash Off                | 30 °C                               | 10 minutes |  |
| Over coating   | 4 hours         | Laminar air              | 45 °C                               | 45 minutes |  |
| Stackable  | 4 hours         | Cooling                  | 25 °C                               | 5 minutes  |  |
| Sanding time   | 2 hours         | Stackable or overcoating |                                     | 60 minutes |  |
|  |                 | Sanding time 2 h         |                                     | h          |  |

Substrate preparation: Substrate must be carefully cleaned, removing all traces of grease, wax or resins. To minimize fibre rising the milling tools have to be well sharp-edged and, if possible, the substrate shall be sanded with 220 - 240 grit paper. Wood species: Some wood essences like oak, acacia, ash, etc...release some coloured water soluble substances which may stain the white basecoat as well as the waterbased topcoat even if several coats are applied. Such wood essences can be lacquered with at least 2 coats of basecoats only if YL M643/ C02 has been catalysed with hardener YC M401 at 5%. The basecoat may be used as mono component if the lacquered topcoat is PU based or if the wood is free from water soluble substances Application instructions: Avoid to apply excessive quantity of product in a single coat and wet on wet coating systems. To obtain the best result, it is recommended to avoid to dilute the product with water but to choose the best application conditions that shall allow the maximum product atomisation. Hereunder are listed the general advices suggested for spray application: Air pressure Thinning % Nozzle Coating pressure Conventional spray dun from 2 to 2 2 From 3 to 4

| Conventional spray guit  | 4-0                     | 110111 2 10 2,2                  | 1 10111 3 10 4             | ==                          |
|--|-------------------------|----------------------------------|----------------------------|-----------------------------|
| Air mix  |                         | 11                               | From 0 to 2                | From 80 to 110              |
| Airless  |                         | 11                               |                            | From 120 to 150             |
| The use of pre atomizers and   | pre heaters (with tem   | peratures between 30 and 40      | °C) ensure better applicat | ion consistency all year    |
| round. When application is ca  | rried out at low tempe  | ratures and / or high relative h | umidity, or when the third | coat is applied drying time |
| gets longer. Drying should be carried out in areas with good air ventilation (the whole volume of air of the drying room should be |                         |                                  |                            |                             |
| changed every 15-20 minutes  |                         |                                  |                            |                             |
| Sanding: The use of spaced   | and stearate 280-400    | grit paper is recommended. Th    | he product can be sanded   | both by manual or           |
| automatic sanding equipment. The automatic systems have to be set up in order to avoid to overheat the film of coatings.           |                         |                                  |                            |                             |
| Overcoating: Can be over co  | ated both with waterb   | orne topcoats for interior and v | with solvent based PU top  | coats.                      |
| Overcoating with Redox polye   | ster coatings is not re | commended.                       | -                          |                             |

For further information regarding the use of waterborne products, please refer to the Main Guide

## General remarks

- Mix well before use.
- If properly stored at temperatures between <u>5 and 35°C</u>, shelf life is <u>18 months</u>
- On application the temperature of the product, the substrate, the coating and the working environment should never fall below 15°C. Coatings applied at lower temperatures will show chemical and mechanical properties lower than standard performances that can be normally achieved.

 Coating left overs (washing waters, waters from spray booths, used coatings) must be disposed of according to local regulations. Never dispose residues directly into drains.

• Application tools must be cleaned with water after use. When dry films must be removed, **AY---M460**, special detergent should be used, letting it work overnight and then cleansing with water

| What to do in order to           | ۸dd     | % of use |                    |
|----------------------------------|---------|----------|--------------------|
|                                  | Auu     | %        | Grams for 25 litri |
| Increase thixotropy or viscosity | AY M453 | 0,5 - 1  | da 125 a 250       |

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AFTER PROLONGED STORAGE, THE VISCOSITY OF PIGMENTED AND/OR THIXOTROPIC PRODUCTS MAY DIFFER FROM THE ONE MENTIONED ON THE TECHNICAL DATS SHEET. DIFFERENCES ARE TO BE REGARDED AS ACCEPTABLE IF WITHIN 30% MAXIMUM.

| TECHNICAL DATA SHEET         |         | Version 2 dated 16/04/2020 |             |  |
|------------------------------|---------|----------------------------|-------------|--|
| Eliminate craters / cissings | AY M457 | 0,2-0,5                    | da 50 a 125 |  |

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