YO-20M386/--NTR

1-K RENNERPLAST CONVERTER Brush/Roll

Converter for waterbased pigmented topcoats by brush or roll for u-PVC door and window frames

Renner Italia Spa - Via Ronchi Inferiore, 34 - 40061 MINERBIO (BO)

Main properties:

- For brush or roll application; both for vertical and horizontal application
- 1 K waterbased product by single coat. May be crosslinked with 5% YC---EL05/-----
- It is possible to prepare a wide range of coloured topcoats: RAL, NCS, Colour System, metallic effects or sample colours
- May be pigmented with anti-heat pastes to reduce the increase of window frames temperature after the exposure to sunlight
- May be pigmented with outdoor resistant aluminum pastes
- Excellent adhesion on u-PVC for door and window frames
- Excellent hardness of the dried film
- Good chemical resistance

Chemical-Physical properties at 23°C:

Solid content (%)	NTR	31 ± 2
Specific weight (g/cm^3)	NTR	1,05 ± 0,03
Viscosity DIN 8 (s) at 23”C	NTR	23 - 33”

Colour preparation

- For dark colours: on 90 parts by weight of neutral converter **NTR**, add 10 parts by weight of coloured pastes.
- For colour formulations 17 pastes (see table below) are needed. The pastes are made up of pigments with high light-fasteness properties and resistance to atmospheric agents.
- In the paste range for RENNERPLAST there are 2 pastes that contain **anti-IR pigments**, black **EY---M377/--E01** and brown **EY---M377/--E74**. Thanks to their properties of reflection of the infrared fraction of solar radiation, these pastes reduce considerably the temperature of the coated surface once exposed outdoor (usually 15°) slowing down the deterioration of the PVC door and window frame
- For metallic effect colours, use the converters **NTR** and the pastes **EY---M377/--*38** (see table below), with a ratio of 3-10% depending on the required effect.
- Aluminum pastes **EY---M377/--*38**, available in three different particle sizes, are suitable for outdoor exposure, being covered with a film with protective properties against atmospheric agents.
- After the addition of the coloured pastes, homogenize with an agitator or a gyroscopic mixer for coatings
- With the exception of **EY---M377/--*38**, all pastes may be introduced in the Renner Italia Colour System automatic tintometer

RENNERPLAST Paste range

Coloured pastes for exterior		
1	White	**EY---M690/--C02**
2	Orange	**EY---M690/--C08**
3	Amaranthine	**EY---M690/--C54**
4	Purple Red	**EY---M690/--C52**
5	Oxide Red	**EY---M690/--C70**
6	Oxide Yellow	**EY---M690/--C77**
7	Lemon Yellow	**EY---M690/--C60**
8	Red	**EY---M690/--C03**
9	Violet	**EY---M690/--C31**
10	Green	**EY---M690/--C09**
11	Blue	**EY---M690/--C04**
12	Ocean Blue	**EY---M690/--C62**
Anti-IR or anti-heat coloured pastes		
13	Anti-IR Black	**EY---M377/--E01**
14	Anti-IR Brown	**EY---M377/--E74**
15	Anti-IR Black Deep	**EY---M377/--C55**
Aluminum pastes for exterior		
16	Aluminum Fine	**EY---M377/--F38**
17	Aluminum Medium Coarse	**EY---M377/--A38**
18	Alluminum Coarse	**EY---M377/--C38**

Preparation of the profiles before coating

The surface of the substrate to be coated must be cleaned, so clear from dust, silicone, release agents or other residues coming from possible manufacturing or previous chemical treatments. Avoid the use of silicones or release agents in the areas close to the painting booth.

1. Spray the profiles with compressed air in order to remove dust and dirty traces. The compressor must be equipped with an oil and water in order to avoid pollutions of the surface.
2. Remove the protective film.
3. Sand the possible sharp edges with scotch brite (i.e. 3M extra fine grey color) or with fine abrasive paper (grains 320) heled by a soft cloth.
4. Clean the substrate with a microfiber or cotton cloth without fluff or industrial paper soaked with AP M088. Change the microfiber/paper/cotton frequently.
   Given the great variety of the PVC substrates on the market, if microfiber/paper/cotton cloth isn't enough for a good cleaning (which leads to a bad adhesion of the coating on the PVC profile), use scotch brite (i.e. 3M extra-fine grey color) soaked with AP M088 cleaner.
5. Before the cleaner evaporates, dry the surface with an industrial paper cloth or a clean and dry cloth. Never let the cleaner dry on the substrate.
6. Proceed then with the protection of the areas that don't have to be coated; on this regard, use an adhesive tape that is waterproof to the water-based coating (i.e. tesa® 4334).
7. Later, protect the clean profiles from a possible external contamination (i.e. dust, silicone in the air, gloves or dirty hands).
8. Proceed with the coating within 20 minutes from the cleaning.

The cleaning process can also be performed in a completely automatic way. In this case it is suitable to foresee a mechanical brushing of the surface and a following mechanical cleaning with the cleaner AP M088. Great results have been obtained by using felts soaked with cleaner.

Application method

BRUSH / ROLL

It is possible to apply up to three coat of paint.
After each coat wait at least 90 minutes for drying (this time is referred to an environment with 20°C and 70% of humidity, depending on temperature and humidity condition, drying time may be different)

General remarks

- Mix well before use.
- It is sensible to low temperatures
- If properly stored at temperatures between 15 and 35°C, shelf life is 18 months
- 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