

Technical Data Sheet

EMK223-00X0 HYDROPLUS: WATERBORNE CLEAR SELF-SEALER FOR INTERIORS

Supersedes previous issue dated 11.08.16

DATE 11/18/16

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|-------------------|---|
| Gloss level: | 05 ± 1 gloss 10 ± 2 gloss 20 ± 2 gloss 30 ± 2 gloss 50 ± 3 gloss |
| Area of use: | Flat parts, turned parts, frames, baseboards, wall panelling, doors |
| Method of use: | By spray: conventional, airmix, airless, electrostatic (provided that any equipment used is suitable for waterborne products) |
| Mixing procedure: | Ready to use. If necessary, thin with tap water up to 5%. |

Technical characteristics

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|----------------------------|--------------|
| Solids content (%): | 23 ± 2 |
| Specific gravity (kg/l): | 1.030 ± 0.03 |
| Viscosity (DIN 4 at 20°C): | 40" ± 12" |
| * pH | 8.5 ± 1 |

General characteristics

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|---|--|
| Number of coats: | 1 (if used for <i>arte povera</i> style systems); 2 (if used as a self-sealer) |
| Recommended application weight (g/m ²): | min. 80, max. 140 per coat |
| Drying time (100 g/m ² at 20°C): | Dust free 20' Touch dry 60' Stackable: 24 hours |
| Shelf-life (months): | 15 |

EMK220-00X0 is a 1-pack waterborne self-sealer for interiors, ensuring good hardness, transparency and smoothness to the touch. It can be applied alone or as a topcoat on all of the waterborne basecoats for interiors from the HYDROPLUS range.

Thanks to excellent pore marking, it is also suitable for open pore systems and for *arte povera* style furniture (one coat only to be applied directly onto wooden substrate already treated with waterborne glazes from AP1221/XX range).

EMK220-0020 can be tinted with small percentages of AC0600/XX or AC1810/XX waterborne stains.

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WARNING: ACTUAL VISCOSITY OF SOME PIGMENTED AND/OR THIXOTROPIC PRODUCTS MAY DIFFER FROM THE VISCOSITY SHOWN ON THE TECHNICAL DATA SHEET. DIFFERENCES ARE TO BE REGARDED AS ACCEPTABLE IF WITHIN 30% MAXIMUM.

COMPANY WITH
MANAGEMENT SYSTEM
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Substrate preparation

To obtain the best final result, a preliminary sanding of the substrate using 180 - 220 grit sandpaper is always recommended.

Sanding of the basecoat or of the first coat of EMK220-00X0

In case a higher build is required and a specific high solids basecoat has been applied, EMK220-00X0 can be applied as a topcoat on the waterborne basecoats for interiors from the HYDROPLUS range.

We always recommend to sand the first coat or the basecoat with 320 - 400 grit sandpapers. For best results, use stearate sandpaper, which provide excellent de-dusting and much higher efficiency than conventional sandpaper. Ask your abrasives supplier for information on specific papers for waterborne products.

Before applying the last coat, it is very important to make sure that the basecoat is thoroughly clean and free from grease, wax or resins.

Chemical resistance and crosslinker

To increase chemical resistance and surface hardness further on, 1% of XA4080/00 crosslinker (see Technical Data Sheet) can be added under stirring conditions.

Drying

Drying of waterborne products must take place at temperatures not below 15°C and at a relative humidity preferably not exceeding 85%. Out of these limits, there is a slowing down of the drying and/or formation of a less hard and resistant film. It is always advisable to have forced dry air circulation, initially at room temperature and then at 20 - 30°C.

Stacking

EMK220-00X0 has an excellent drying speed, but in case of forced drying, and considering the wide variety of ovens and tunnels existing on the market, a preliminary stackability test is always recommended.

The natural thermoplasticity of the resins used in waterbased coatings makes them more delicate when stacked. Moreover, depending on how the coated items have dried, different results may be achieved. A strong ventilation with moderately hot air, a low humidity rate, a correct spreading rate and the use of XA4080/00 crosslinker in the topcoat may significantly reduce time and risks linked to stacking.

The following recommendations always apply:

- stack the coated items at least 24 hours after coating
- always use a proper packaging material between the panels
- when possible, stack vertically

For further information, please refer to "GENERAL GUIDELINES ON USE OF WATERBORNE COATINGS FOR INTERIORS".

Use on toys: EMK220-00X0 is free from heavy metals and complies with the requirements stated by the European Rule EN 71-3 (Toys Safety – Migration of some elements).

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General instructions

- Store the product in rooms where the temperature does not fall below 5°C.
- During application, keep the product, the substrate and the room at a temperature of at least 15°C.
- The use of coating devices not in perfect order (defective gaskets, too high pressures) or of pumps with low capacity may cause major defects in the coating film (air bubbles).
- Coating residues (washing water, booth water, used coating) must be disposed of in accordance with current legislation. Do not pour residues down drains.
- In view of the wide variety of materials used for manufacturing wooden products, when switching from a solvent-based to a waterborne coating system it is always advisable to contact your suppliers' technical departments to check whether your equipment and components are appropriate or whether more suitable types exist. In particular, check: electrostatic guns, pumps, seals, silicones, glues, booth treatment water products, packaging materials, fillers, sandpaper, etc.
- Once the can has been opened, the product may rot because of the attack of bacteria commonly present in the air. This phenomenon is easily detectable because of the bad smell and by an increase in viscosity. We advise against recovering the product adding it to fresh product cans as well as leaving the cans open, particularly during summertime. The addition of 0.1÷0.5% of XA4051/00 increases the product's preservation (but only as a preventive action).

Cleaning information

Wash the application equipment with warm water.

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