

HydRo Color

Technical Information

Characteristics: Coloured aqueous polyurethane acrylate dispersion. **HydRo Color** is easy to apply, dries quickly and can be used as one component paint as well as two component paint after addition of hardener. Free from NMP.

A perfect result can only be achieved by carrying out the following instructions.

Area of application: For coloured coatings of kitchen-, office-, school- and living-furniture as well as for hotel and catering facilities. **HydRo Color** can perform coloured coatings accentuating wood structures and on closed substrates coating effects similar to flattening varnish.

Substrates: The substrate to be coated must be dry, clean, load-bearing and free from abrasive dust, oil, grease and adhesion-inhibiting substances.

HydRo Color can be used as priming and finishing coat on coarsely porous wood surfaces. To achieve a flattening varnish effect it is recommended to apply it on MDF-boards coated with primer foil or with **HydRo Füller 1K/2K**.

Hardener: **HydRo Härter**
 After addition of hardener allow the mixture of lacquer and hardener to react for about 15 minutes as the viscosity rises for a short term. Adjust afterwards if necessary the viscosity by adding approx. 10-20% water.

Mixing ratio: 10 units lacquer: 1 unit hardener by weight and by volume

Pot life: Max. 4 hours at 20°C/65% relative air humidity
 Exceeding the pot life may cause surface defects.
Attention: The pot life is reduced by higher temperatures of the object and ambiance

Processing: **HydRo Color** can be applied by roller or brush as well as by spraying (gravity spray gun, Airless, Airmix):

Application:	Airless	Airmix	gravity spray gun
Spray pressure:	60 - 80 bar	50 - 60 bar	----
Air pressure:	----	1.0 – 1.5 bar	2.5 – 3.0 bar
Nozzle size:	0.22 – 0.33 mm	0.22 – 0.33 mm	1.7 – 2.0 mm
Spray viscosity:	ca. 20 - 24 s/4 mm	ca. 20 - 24 s/4 mm	ca. 20 - 24 s/4 mm

Depending on the used spray gun, deviations concerning spray pressure, air pressure and nozzle size can occur. The temperature for application should be between +15 and +25°C.

This also applies to the substrate.

Not suitable for curtain coating.

Dilution: **HydRo Color** is ready for use. Depending on the spray gun and on the chosen application method it can be thinned with water.

Spreading rate: Applied quantity: Approx. 120 g/m² and layer.
 Approx. 8m²/l per layer depending on the absorptive capacity of wood and the application method.

Please turn over!

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- Drying time:** At 20°C room temperature and max. 65% relative air humidity:
- dust dry after approx. 15 minutes.
- sandable and recoatable after 1-2 hours
- Gloss level:** 45 = matt
- Primer and topcoat:** a) Open-cell surfaces on coarsely porous wood with accentuated structure:
2x **HydRo Color**
If the surface structure should be more resistant to metal rings it must be coated with **HydRo Möbellack 1K/2K**.
b) Coating system similar to flatting lacquer:
The product can be sprayed directly on foil coated boards after preliminary sanding. Untreated boards need to be prepared with **HydRo Füller 1K/2K** (intermediate sanding K 220, final sanding K 320). Edges and profiles must be sanded thoroughly with K 150-200 before applying **HydRo Füller 1K/2K**.
If the surface structure should be more resistant to metal rings it must be coated with **HydRo Möbellack 1K/2K**.
- Cleaning of tools:** After use clean immediately working equipment with water. Dried paint residue can be removed with **Waschlöser Nr. 52**.
- Storage:** **HydRo Color** can be stored 2 years in originally-closed containers.
HydRo Color store cool, but not below +6°C. Close tightly opened packs and use up quickly. In case of big ullage in the container fill the product in a smaller container (don't use canister because of corrosion risk).
- Special remarks:** **HydRo Color** must be stirred very well before every application. Even if the surfaces coated with **HydRo Color** are dry and ready to be stacked after a short time, the requested chemical and mechanical resistance is only achieved after a curing time of some days (20°C/65% relative air humidity).

Tested according to:
DIN 53160-1/-2: Resistant to sweat and saliva.

- Please consider:** The product and the recommendations in this technical data sheet correspond to today's state of the art. Our application technology recommendations oral and in writing, which we give due to our experience to the best of our knowledge, are non-committal and do not constitute a contractual legal relation and additional obligation of the sales contract. They do not release the user from his obligation to check the existing underground and the suitability of our products for the intended purpose on his own responsibility. In case of doubt, suitability and consumption rate are to be tested by creating a sample. When merging other products with our own products or processing with foreign manufactured products we cannot guarantee a perfect final result of the surface. Our general terms of payment and supply are in force.

With this technical information all previous lose their validity

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