



HIDROHEL

SYSTEMS FOR CHILDREN'S FURNITURE AND TOYS

HIDROHEL systems offer the most optimal and environmentally favorable solution for advanced manufacturers of children's wooden furniture and toys. The water-thinnable systems are children-friendly and

follow the European standards for safe use of furniture and toys by children. As VOC content of these eco-friendly systems is very low, their great benefit is also safer use by workers involved in the application process.

HIGHLIGHTS

- Safe for children's use (European standard EN 71-3 »Safety of toys«)
- Safe and easy-to-use for workers at application process
- Very good chemical and mechanical resistance (certified IKEA standard IOS MAT 0066 – class R4)
- Low VOC content (below 70g/L)
- Allows various application possibilities (spraying, curtain coating, dipping and roller application)



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System	Application method	Field of application	Products	Wet film thickness	Application method specified
System I Pigmented	Spraying Base coat/ top coat	Children's furniture (beds, tables, chairs, commodes, lockers, etc.)	HIDROHEL base enamel ARL or AR HIDROHEL enamel HV	100 – 120 µm 100 – 120 µm	Spraying – airmix, airless, electrostatics
System II Pigmented	Dipping/ spraying Base coat/ top coat	Elements for children's beds (credles and cots), chairs and stairs	HIDROHEL enamel U HIDROHEL enamel HV	100 – 120 µm	Dipping Spraying – airmix, airless, electrostatics
System III Pigmented	Dipping Universal coat	Toys and simple furniture parts	HIDROHEL enamel U		Once or twice dipping
System IV Transparent	Spraying Universal coat	Children's furniture (beds, tables, chairs, commodes, lockers, etc.)	HIDROHEL univ. lacquer V	2 x 90 – 120 µm	Spraying in two layers – airmix, airless, electrostatics
System V Transparent	Dipping/ spraying Base coat/ top coat	Elements for children's beds (credles and cots), chairs and stairs	HIDROHEL univ. lacquer U HIDROHEL univ. lacquer V	90 – 120 µm	Dipping Spraying – airmix, airless, electrostatics

Drying time

The table shows the drying time for base, universal and top coats.

Temperature	Ready for sanding or manipulation	Ready for stacking
Room temperature (18-25 °C)	2 – 3 hours	12 hours
Channel drying (35-45 °C)	30 – 45 min	2 hours after cooling down to room temperature

Certifications

These materials are compatible with the European standard EN 71-3 (Safety of toys) and certificated according to IKEA standard IOS MAT 0066 (Surface coatings and coverings) with the resistance class R4.



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