

WW116
FAST DRYING OPAQUE PAINT SYSTEM FOR EXTERIOR WOODEN CLADDINGS
**Pinja Indeep
Ultra Pro 10**

Water-borne system WW116 is high quality matt paint system for exterior sawn and planed wooden claddings.

Pinja Indeep is water-borne wood preservative for priming. It protects wood against moisture, mold and blue stain. It delay water penetration into the wood and therefore decreases the moisture cracking of the wood surface. Alternative products for Pinja Indeep are Pinja Wood Stain and Pinja Color Oil.

Ultra Pro 10 is fast drying flexible polyacrylate paint. Ultra Pro 10 is recommended to use as primer and top coat. It protects the wood against weathering, moisture, sunlight and dirt. The paint film has low water absorption properties which decreases the cracking of the wood. Ultra Pro is tintable in Avatint tinting system.

Recommended wet film thickness is 120 - 160 g/m² each layer which corresponds about 40-50 µm dry film thickness. This system can be used with or without clear impregnation with Pinja Indeep. Impregnation minimizes cracking of the wood and improves water and mould resistance of the system.

FAST DRYING SYSTEM FOR EXTERIOR WOODEN CLADDINGS

	Product	Application method	Wet film thickness
Impregnation	Pinja Indeep	Spraying, vacuum, brushing machine	1x 80 - 160 g/m ²
Top coat	Ultra Pro 10	Spraying, vacuum, brushing machine	2-3x 120 - 160 g/m ²

PRODUCT PROPERTIES

Solid Content 39 vol-% VVA
37 vol-% VC

Specific gravity 1,25 kg/l VVA
1,12 kg/l VC

Drying times

120–160 g/m ²	+23°C	+50°C
Recoatible, after	2–4 h	5–20 min

Gloss Matt

Application methods Spraying, vacuum, brushing machine

Thinner Water

Cleaning of equipment Water or Tool Cleaner.

Colours AVATINT tinting systems. For exterior use it is recommended to use the shades on the Wooden Facades, NCS or RAL colour cards.

SURFACE PREPARATION	The surface to be treated has to be clean and dry. The moisture content of sawn timber has to be below 20 %.
APPLICATION CONDITIONS	During application and drying the temperature of the air, paint and surface should be at least +10 °C. The relative humidity should not exceed 70 %. Good ventilation is needed during the drying process.
SYSTEM	<p>Stir the Pinja Indeep well before application. The proper application viscosity is 11 - 13 s (DIN4). Apply Pinja Indeep and check that it covers all the surfaces. Let the stain dry. In normal conditions when temperature is 20 - 30 °C the drying time is about 2 - 3 hours.</p> <p>Stir the Ultra Pro 10 well before application. Normally the paint is used in delivery viscosity but max. 5 % thinning with water is possible. The right nozzle size is 0.013 or 0.017" and angle 20 or 40 and the spraying distance from object about 20 - 25 cm.</p> <p>Spray the Ultra Pro 10 evenly about 120-160 g/m² wet film thickness and let the paint dry. Drying time in conventional oven in 30-50°C temperature is about 5-20 min. Drying and recoating times are related to the wet film thickness, color shade, temperature, the relative humidity of the air and ventilation.</p> <p>The colours of C-base paint might need longer drying time than the colours of VVA-base.</p> <p>Apply second and third coat same way as first coat.</p>
STACKING	<p>Stacking temperature below +30°C.</p> <p>Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation.</p> <p>In order to avoid surface damages painted panels are recommended to stack so that the paint surface is against wood surface. Surface temperature must be under 30°C and between panels is recommended to put some soft material. Drying and stacking properties must be tested before starting the full scale painting.</p>
WARRANTY OF QUALITY	<p>Tikkurila Oyj has designed this application technology and painting system to have expected maintenance interval of minimum 10 years if conditions of wooden construction materials are checked annually and possible damages fixed according to the maintenance instructions.</p> <p>These products are tested in Tikkurila R&D laboratory and exterior test field. Long experience of the exterior use has shown that these products are suitable for painting of exterior wooden construction materials. Maintenance interval is a rough estimate, as it depends on the structural features, weather conditions, the geographic location and orientation of the objects.</p>
MAINTENANCE PAINTING	Remove dirt, mould and loose particles from the surfaces. Remove loose paint with scraper and brush the surface clean with a steel brush. Wash down dirty and mouldy surfaces with Tikkurila Mould Removal according to the instructions. Repaint surface according the instructions of maintenance paint. Ultra Classic, Ultra Matt and Pika-Teho are suitable products for maintenance painting.