


WW47
OPAQUE PAINT SYSTEM WITH PRIMING OIL FOR EXTERIOR WOODEN CLADDINGS

Pinja Indeep
Pinja Wood Stain
Pinja Color Oil
Pinja Pro

Water-borne system WW47 is pigmented paint system for exterior sawn and planed wooden claddings.

Pinja Indeep is water-borne clear preservative. It protects wood against mold, blue stain and moisture. 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.

Pinja Pro is flexible acrylate top coat. It protects the wood against moisture, sunlight and dirt. The paint film has low water absorption properties which decreases the cracking of the wood. Pinja Pro is tintable in Avatint tinting system.

Recommended wet film thickness is 125 - 160 g/m² each layer which corresponds about 40-50 µm dry film thickness. Recommended total dry film thickness is for two layer system is 80-100 µm.

3-LAYER SYSTEM FOR EXTERIOR WOODEN CLADDINGS

	Product	Application method	Wet film thickness
Impregnation	Pinja Indeep	Spraying, vacuum, brushing machine	80 - 160 g/m ²
Top coat	2x Pinja Pro	Spraying	125 - 160 g/m ²

PRODUCT PROPERTIES

Solid Content	5 vol-%	Pinja Indeep
	40 vol-%	Pinja Pro A
	37 vol-%	Pinja Pro C

Specific gravity	1,0 kg/l	Pinja Indeep
	1,3 kg/l	Pinja Pro A
	1,2 kg/l	Pinja Pro C

Drying times

	100–120 g /m ²	+23°C	+50°C
Pinja Indeep	Dry to repaint	2-3 h	1-2 h
Pinja Pro	Dry to stack	5-8 h	2-4 h

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 colour card.

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>Impregnation</p> <p>Stir the Pinja Indeep well before application. The proper application viscosity is 10 - 13 s (DIN4). Apply Pinja Indeep and check that it covers all the surfaces. Let the product dry. In normal conditions when temperature is 20 - 30 °C the minimum drying time is about 2-3 hours.</p> <p>Top coat</p> <p>Stir the Pinja Pro well before application. Normally the paint is used in delivery viscosity but max. 10 % thinning with water is possible. The right nozzle size is 0.013 or 0.015" and angle 20 or 40 and the spraying distance from object about 20 - 25 cm.</p> <p>Spray the Pinja Pro evenly about 125-160 g/m² wet film thickness and let the paint dry. In normal conditions when temperature is 20 - 30 °C the drying time is minimum 5 - 8 hours.</p> <p>Apply second coat same way as first coat.</p> <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>
STACKING	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.
WARRANTY OF QUALITY	<p>Tikkurila Oyj has designed this application technology and painting system to have a 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. Pinja Pro, Ultra, Pika-Teho and Vinha are suitable products for maintenance painting.