

## SEMI-OPAQUE PAINT SYSTEM WITH PRIMING OIL FOR EXTERIOR WOODEN CLADDINGS

<b>Pinja Wood Stain</b>	<b>314 6909</b>
<b>Pinja Pro Primer</b>	<b>243-s</b>
<b>Pinja Pro Primer N</b>	<b>9607201</b>
<b>Pinja Top</b>	<b>247-s</b>

Water-borne system WW69 is pigmented paint system for exterior sawn and planed wooden claddings.

Pinja Wood Stain is water based wood stain. It protects wood against moisture, sunlight and dirt. It delay water penetration into the wood and therefore decreases the moisture cracking of the wood surface. Alternative products for Pinja Wood Stain are Pinja Priming Oil and Pinja Color Oil.

Pinja Pro Primer is water-borne alkyd primer for sawn claddings. Pinja Pro Primer N is also water-borne alkyd primer and it is suitable for both sawn and planed claddings.

Pinja Top is flexible semi-opaque 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 Top is tintable in Avatint tinting system.

Recommended wet film thickness is 125 - 160 g/m<sup>2</sup> each layer which corresponds about 40-50 µm dry film thickness. Recommended total dry film thickness is for three layer system is 80-100 µm.

### 3-LAYER SYSTEM FOR EXTERIOR WOODEN CLADDINGS

	<b>Product</b>	<b>Application method</b>	<b>Wet film thickness</b>
Impregnation	Pinja Wood Stain	Spraying, vacuum, brushing machine	80 - 120 g/m <sup>2</sup>
Primer	Pinja Pro Primer	Spraying, vacuum, brushing machine	125 - 160 g/m <sup>2</sup>
Top coat	Pinja Top	Spraying	125 - 160 g/m <sup>2</sup>

### PRODUCT PROPERTIES

<b>Solid Content</b>	10 vol-%	(314 6909)
	23 vol-%	(243 6001)
	35 vol-%	(247 6302)

<b>Specific gravity</b>	1,0 kg/l	(314 6909)
	1,2 kg/l	(243 6001)
	1,2 kg/l	(247 6302)

#### Drying times

	<b>100–120 g /m<sup>2</sup></b>	<b>+23°C</b>	<b>+50°C</b>
Pinja Wood Stain	Dry to repaint	10-60 min	5-20 min
Pinja Pro Primer	Dry to repaint	24 h	3-6 h
Pinja Top	Dry to stack	2-4 h	1-2 h

**Gloss** Semi-matt

**Application methods** Spraying, vacuum, brushing machine

**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.

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<b>SURFACE PREPARATION</b>	The surface to be treated has to be clean and dry. The moisture content of sawn timber has to be below 20 %.
<b>APPLICATION CONDITIONS</b>	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.
<b>SYSTEM</b>	<p><b>Impregnation</b> Stir the Pinja Wood Stain well before application. The proper application viscosity is 10 - 13 s (DIN4). Apply Pinja Wood Stain 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 10-30 min.</p> <p><b>Priming</b> Stir the Pinja Pro Primer well before application. If needed primer is possible thin up to 30 % with water. Apply Pinja Pro Primer evenly about 125-160 g/m<sup>2</sup> wet film thickness 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 24 hours.</p> <p><b>Top coat</b> Stir the Pinja Top well before application. Normally the paint is used in delivery viscosity but max. 10 % thinning with water is possible. The right nozzle size is 0.011 or 0.013" and angle 20 or 40 and the spraying distance from object about 20 - 25 cm.</p> <p>Spray the Pinja Top evenly about 125-160 g/m<sup>2</sup> wet film thickness and let the paint dry. In normal conditions when temperature is 20 - 30 °C the drying time is minimum 2 - 4 hours.</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>
<b>STACKING</b>	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.
<b>WARRANTY OF QUALITY</b>	<p>Tikkurila Oyj has designed this application technology and painting system to have a maintenance interval of minimum 5 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&amp;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>
<b>MAINTENANCE PAINTING</b>	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 to the instructions of maintenance paint. Pinja Top, Vinha, Ultra and Pika-Teho are suitable products for maintenance painting.

The above information is not intended to be exhaustive or complete. The information is based on laboratory tests and practical experience, and it is given to the best of our knowledge. The quality of the product is ensured by our operational system, based on the requirements of ISO 9001 and ISO 14001. As manufacturer we cannot control the conditions under which the product is being used or the many factors that have an effect on the use and application of the product. We disclaim liability for any damages caused by using the product against our instructions or for inappropriate purposes. We reserve the right to change the given information unilaterally without notice.

The product is intended for professional use only and shall only be used by professionals who have sufficient knowledge and expertise on the proper use of the product. The information above is advisory only. To the extent permitted by applicable law, we shall not approve of any liability for the conditions under which the product is being used or for the use or application of the product.

In case you intend to use the product for any other purpose than that recommended in this document without first getting our written confirmation on the suitability for the intended use, such use takes place at your own risk.