

**WW108**
**OPAQUE PAINT SYSTEM FOR EXTERIOR WOODEN CLADDINGS**
**Pinja Protect M 20**

Water-borne system WW108 is high quality paint system for exterior sawn and planed wooden claddings.

Pinja Protect M 20 is all-round water-borne fast drying acrylic intermediate paint. It ensures the overall durability of the paint system. The product has Nordic Swan Ecolabel.

The paint protects the wood against moisture, sunlight and dirt. The paint film has low water absorption properties which decreases the cracking of the wood. When applied once the paint has good protection for 12 months and two coat system gives good protection for 2 years.

For finishing painting it is recommended Alcro Bestå and Beckers Perfect Acrylat Plus paints.

Recommended wet film thickness is 120 g/m<sup>2</sup> which corresponds about 40-45 µm dry film thickness. Recommended total dry film thickness is for two layer system is 80 µm.

**FAST DRYING SYSTEM FOR EXTERIOR WOODEN CLADDINGS**

	Product	Application method	Wet film thickness
As primer	Pinja Protect G	Spraying, vacuum, brushing machine	120 - 150 g/m <sup>2</sup>
As intermediate	Pinja Protect M 20	Spraying, vacuum, brushing machine	120 g/m <sup>2</sup>

**PRODUCT PROPERTIES**

<b>Solid Content</b>	43 vol-%	Pinja Protect G	
	43 vol-%	Pinja Protect M 20	
<b>Specific gravity</b>	1,21 kg/l	Pinja Protect G	
	1,21 kg/l	Pinja Protect M 20	
<b>Drying times</b>	Wet film 150 g/m <sup>2</sup>	+20°C	+50°C
	Dry to repaint	1-4 h	2-20 min
<b>Gloss</b>	Semi-matt		
<b>Application methods</b>	Spraying, vacuum, brushing machine		
<b>Thinner</b>	Water		
<b>Cleaning of equipment</b>	Water or Tool Cleaner.		
<b>Colours</b>	White NCS S 0502 Y, red and grey		

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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>Stir the Pinja Protect G 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 - 0.017" and angle 20 or 40 and the spraying distance from object about 20 - 25 cm.</p> <p>Apply the Pinja Protect G evenly about 120-150 g/m<sup>2</sup> wet film thickness and let the paint dry. Drying time in conventional oven in 30-50°C temperature is about 3-20 min.</p> <p>Stir the Pinja Protect M 20 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 - 0.017" and angle 20 or 40 and the spraying distance from object about 20 - 25 cm.</p> <p>Apply the Pinja Protect M 20 evenly about 120 g/m<sup>2</sup> wet film thickness and let the paint dry. Drying time in conventional oven in 30-50°C temperature is about 3-20 min.</p> <p>Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation. Dark colors might need longer drying time than the white colors.</p> <p>Vacuum and brushing machine application: follow instructions of the machine supplier.</p>
<b>STACKING</b>	<p>Stacking temperature below +30°C.</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>
<b>WARRANTY OF QUALITY</b>	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.
<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 the instructions of maintenance paint. Bestå Täckfärg, Arkitek, Perfect Plus Facade and Front Hellmatt are suitable products for maintenance painting.