



TIKKURILA

# PANSsarIMAALI

ALKYD PAINT FOR METAL SURFACES / SEMI-GLOSS

**DESCRIPTION**

Alkyd paint with an active anti-corrosive pigment.

**RECOMMENDED USES**

Sheet metal roofs, water channels, down pipes, protective sheets, handrails and steel structures.

**PRODUCT FEATURES**

Suitable for exterior painting of primed hot galvanized, aluminum and steel surfaces and surfaces previously painted with alkyd paints.





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TECHNICAL DATA	
<b>Base paints</b>	A BASE, C BASE
<b>Colour Shades</b>	<b>Color cards:</b> Paints for metal roofs -colour card, Paints for roofs colour card. Can be tinted in Tikkurila colors. Standard colors: Black (0202), Old Copper (0296), Iron Red (0384), Grass (0357) .
<b>Gloss</b>	Semi-gloss.
<b>Coverage</b>	8–12 m <sup>2</sup> /l.
<b>Can sizes</b>	A BASE: 0.9 l, 2.7 l, 9 l, 18 l C BASE: 0.9 l, 2.7 l, 9 l, 18 l
<b>Application method</b>	Brush or spray. Apply the paint preferably by brush, or alternatively by roller or spray. After rolling, immediately finish with a brush. For spraying, use an airless spray nozzle 0.011"–0.015" (nominal angle commonly 40°) and thin the product up to 10% by volume, if needed.
<b>Drying time (23°C and 50% relative air humidity)</b>	Touch-dry after 3–5 hours. Recoating recommended after one day.
<b>Density (kg/l)</b>	1.0–1.3 kg/l depending on the shade, ISO 2811.
<b>Weather resistance</b>	Good, also in industrial and maritime atmosphere. The paint surface will gradually become matt due to the effects of the weather.
<b>Chemical resistance</b>	Resistant to turpentine, white spirit and denatured alcohol. Not resistant to e.g. thinner. Resistant to lubricating oils and greases.
<b>Abrasion resistance</b>	Good
<b>Heat resistance</b>	80 °C, ISO 4211-3.
<b>Volume solids (%)</b>	55
<b>VOC</b>	(cat A/i) max. 500 g/l (2010). Panssarimaali contains VOC max. 500 g/l.
<b>Storage</b>	Unaffected by cold storage or transportation.

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.

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## APPLICATION INSTRUCTIONS

### Application conditions

The surface to be painted must be dry and warmer than the surrounding air. During painting and drying, the temperature of air, the surface and paint must be above +5 °C and the relative humidity of air must be below 80%. The drying rate is strongly affected by the relative humidity of air, temperature and wind speed. The temperature of the surface must not exceed +40 °C so that the solvent does not evaporate too quickly, causing porosity, bubbling and weakened adhesion in the paint. Plan the painting operation so that the paint film has enough time to touch-dry before the evening dew. Dew dims the paintwork.

### Surface preparation

Unpainted surfaces:

It is recommended to paint new galvanized sheet metal roofs after one winter, at the earliest. Best adhesion is achieved with a mechanically or chemically roughened zinc-coated surface that has been dimmed by the weather. Remove any white rust/rust from the surface by sanding or with a wire brush (until grade St2). Remove any water-soluble white rust inhibiting agents, dirt, water-soluble salts, greases and oils from the surface with Panssaripesu and a brush. Rinse carefully with water and allow to dry well. Aluminum surfaces must be roughened before painting.

Prime the entire surface with Rostex Super.

Rostex Super can be finished with Panssarimaali only after a few hours. However, the finishing should take place no later than 4 days after the priming. Otherwise, the primed surface must be roughened to completely matte, rinsed clean and allowed to dry before finishing.

Previously painted surfaces:

Remove any loose paint and rust with a scraper and wire brush (until grade St2). Heavy flaking indicates that the old paint has generally poor adhesion. In this case, remove the old paint carefully (e.g. with a scraper, wire brush, pressure washing or pressure washing with added sand). Wash the surfaces with Panssaripesu and a brush, rinse carefully with water and allow to dry well. Apply Rostex Super anti-corrosive primer to areas where you have removed rust.

### Top coating

First application: Finish with 1 or 2 coats of Panssarimaali depending on the coverage. One coat is usually sufficient if the dry film thickness of Panssarimaali is 40–60 µm.

Stir Panssarimaali well before use and thin with White Spirit 1050 up to 0–5% by volume, if necessary. Apply the paint preferably by brush, or alternatively by roller or spray. After rolling, immediately finish with a brush. For achieving a uniform surface and avoiding color differences, reserve enough paint mixed in a single container. Note! Do not use the color made from the C base paint of Panssarimaali side by side with a corresponding standard color.

The slipperiness of the painted surface can be reduced by adding 1/3 liters of Liukueste powder to 10 liters of paint. When using Liukueste powder, apply two coats of paint such that the second coat includes the anti-slip material.

### Cleaning of tools

Clean tools with White Spirit 1050 or Tikkurila Pansselipesu (Tool Cleaner).

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## Maintenance instructions

Handle the painted surface with care as the product reaches its final hardness and durability in about four weeks under normal conditions. If a surface needs cleaning soon after treatment, use a soft brush, a damp cloth or a mop. After one month from painting, a dirty surface can be cleaned with Huoltopesu (mix 1 part of Huoltopesu with 10 parts of water). Clean stains and very dirty surfaces with a stronger Huoltopesu solution (1:1). After washing, rinse with water and let dry.

## Maintenance treatment

Maintenance painting: Panssarimaali can be maintenance painted with Panssarimaali, other alkyd-based paints designed for sheet metal roofs or Panssari Akva.

## Environmental protection and waste disposal

Avoid spillage into drains, water systems and soil. Destroy liquid waste according to the local regulations for hazardous waste. Recycle empty, dry cans or dispose them of in accordance with local regulations.

## Health and Safety

**Contains:** hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics. **WARNING.** Flammable liquid and vapor. May cause drowsiness or dizziness. Toxic to aquatic life with long lasting effects. Contains ethyl methyl ketoxime. May produce an allergic reaction. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment.



GHS02



GHS07



GHS09

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