

# Fontecryl SC-EF 50

## DESCRIPTION

A water-borne, one-component fast drying alkyd modified acrylic paint with special anti-corrosive pigments.

## PRODUCT FEATURES AND RECOMMENDED USES

- Due to zinc phosphate free nature Fontecryl SC-EF 50 is more environmentally friendly than traditional water-borne corrosion prevention paints.
- Can be used as a single-coat paint that forms a tight film with good abrasion resistance.
- Excellent sagging resistance, thus enabling a thick paint film to be formed with one application.
- Fulfills the requirement of LEED v4 (according to the method accepted for investments realized outside USA), BREEAM, BREEAM-SE and BREEAM-NOR classification system.
- Registered in Basta, Sundahus and Byggvarubedomning.
- The M1 classification for low-emitting building materials has been granted by the Finnish Building Information Foundation RTS.
- Environmental product declaration (EPD) in accordance with EN 15804+A2 & ISO 14025 / ISO 21930.
- The product is also suitable as a topcoat.
- Can be tinted to thousands of colors.
- Suitable for product painting in metal industry and painting stations.
- Drying times can be shortened by using higher temperatures.
- Typical uses are e.g. steel frameworks, machinery and equipment.



## TECHNICAL DATA

**Volume solids** 40±2% (ISO 3233)

**Weight solids** 50±2%

**Specific gravity** 1.2±0.1 kg / l

### Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
wet	dry	
100µm	40µm	10.0 m²/l
200µm	80µm	5.0 m²/l

Practical coverage depends on the application method, painting conditions and the shape and roughness of the surface to be coated.

Note! The painting work should be performed and supervised according to 12944-7 if not otherwise stated in the respective technical data sheet. Excessive film thickness may result e.g. in cracking, sagging, prolonged drying time, soft film, less chemical resistance, gloss deviation, adhesion and intercoat functionality. In case the product is used otherwise than stated in the standard a written approval from Tikkurila is required.



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### Drying time

DFT 80µm	+15°C	+23°C	+60°C
Dust dry, after	1½h	30min	5min
Touch dry, after	3h	1½ h	15min
Recoatable with the product itself	No limitations		

Drying and recoating times are related to the film thickness, temperature, the relative humidity of the air and ventilation.

Water-borne paints and coatings are sensitive to moisture and cold before they are completely dry. Painted surfaces must be stored indoors at a temperature of min. +20°C for at least 40 hours before exposed to weather conditions. Forced drying may shorten the time before exposing the painted objects to outdoors. Please consult Tikkurila Technical Service for more information.

### Gloss

Semi-gloss.

### Color shades

Temaspeed Fonte tinting.

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## APPLICATION INSTRUCTIONS

<b>Surface preparation</b>	<p>Oil, grease, salts and dirt are removed by appropriate means. (ISO 12944-4)</p> <p>Steel surfaces: Blast clean to grade Sa2½. (ISO 8501-1) If blast cleaning is not possible, phosphating is recommended for cold rolled steel to improve adhesion.</p> <p>Primed surfaces: Oil, grease, salt and dirt are removed from the surface by appropriate means. Repair any damage to the primer coat. Note the overcoating time of primer. (ISO 12944-4)</p>
<b>Recommended primers</b>	Fontecryl AP, Fontecryl SC-MR 10.
<b>Recommended topcoats</b>	Fontecryl SC-EF 50.
<b>Application conditions</b>	<p>All surfaces must be clean, dry and free from contamination. The temperature of the ambient air, surface and paint should not fall below +15°C during application and drying. Relative humidity of the air should be between 20–70%. The surface temperature of steel should remain at least 3°C above the dew point. Good ventilation and sufficient air movement is required in confined areas during application and drying.</p>
<b>Application</b>	<p>Stir the product carefully before use.</p> <p>For airless spraying, the product is thinned approximately 0–10%. Recommended nozzle tip is 0.011"–0.015" and pressure 120–160 bar. Spray angle shall be chosen according to the shape of the object.</p> <p>For air-assisted airless spraying, the product is thinned approximately 0–10%. Recommended nozzle tip is 0.011"–0.015" and pressure 120–140 bar. Atomising air pressure should be 2–3 bar. Spray angle shall be chosen according to the shape of the object.</p> <p>For conventional spraying, the product is thinned approximately 0–10%. Recommended nozzle tip is 1.6–2.0 mm and pressure 2–4 bar.</p>
<b>Thinners</b>	Water
<b>Cleaning of equipment</b>	<p>Thinner 1109</p> <p>Clean the spraying equipment immediately after use as follows:</p> <ol style="list-style-type: none"><li>1. Run the equipment with water to remove excess paint from the equipment.</li><li>2. Run the equipment with Thinner 1109, at least two times.</li></ol> <p>Wash the equipment with water before starting to paint again. Unwashed equipment can cause serious surface defects.</p>
<b>VOC</b>	<p>The Volatile Organic Compounds amount is 47 g/litre of paint.</p> <p>VOC content in paint (thinned 10% by volume) is 43 g/l.</p> <p>VOC 2004/42/EC (cat A/i) 140 g/l (2010)</p>
<b>HEALTH AND SAFETY</b>	<p>Containers are provided with safety labels, which should be observed. Further information about hazardous influences and protection are detailed in individual health and safety data sheets.</p> <p>A health and safety data sheet is available on request from Tikkurila Oyj.</p> <p><b>For industrial and professional use only.</b></p>



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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.