

Fontecryl SC-MR 10

DESCRIPTION

A water-borne, one-component fast-drying acrylic-based paint, which contains active anti-corrosive pigments.

PRODUCT FEATURES AND RECOMMENDED USES

- Can be applied directly onto steel without any priming. The product adheres extremely well to the surface and forms a tight, protective paint film.
- Fast drying of Fontecryl SC-MR 10 enables rapid overcoating, thus shortening overall painting time.
- Can be tinted to thousands of colors.
- Used as a primer or topcoat for interior and exterior steel surfaces.
- Overcoatable with a wide range of products, also with solvent-borne products.
- Not suitable for immersion or constant humidity.
- Drying times can be shortened by using higher temperatures.
- Fulfils the requirement of BREEAM, BREEAM-SE and BREEAM-NOR classification system.
- Environmental product declaration (EPD) in accordance with EN 15804+A2 & ISO 14025 / ISO 21930.
- Recommended for painting of steel and cast iron.



TECHNICAL DATA

Volume solids 47±2% (ISO 3233)

Weight solids 58±2%

Specific gravity 1.2±0.1 kg/l

Recommended film thicknesses and theoretical coverage

Recommended film thicknesses		Theoretical coverage
wet	dry	
85µm	40µm	11.8 m²/l
130µm	60µm	7.8 m²/l
215µm	100µm	4.7 m²/l
340µm	160µm	2.9 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.

Drying time

DFT 50µm	+15°C	+23°C	+35°C	+60°C
Dust dry, after	25min	20min	5min	3.5min
Touch dry, after	40min	40min	10min	5min
Recoatable, after, min.	2–3h	1h	10min	



Fontecryl SC-MR 10

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

Matt.

Color shades

RAL, NCS, SSG, BS, MONICOLOR NOVA and SYMPHONY colour cards. Temaspeed Fonte tinting.

Fontecryl SC-MR 10

APPLICATION INSTRUCTIONS

Surface preparation	<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>Zinc surfaces: Sweep blast clean with mineral abrasives, e.g. quartz sand, to an even roughness. (SaS, SFS 5873) If sweep blasting is not possible, the surface should be roughened by hand abrading or washed with Panssaripesu detergent. For hot dip galvanized surfaces see separate application instructions or contact Tikkurila Technical Service.</p> <p>Aluminium surfaces: Sweep blast clean with none-metallic abrasives to an even roughness. (SaS, SFS 5873) If sweep blasting is not possible, the surface should be roughened by hand abrading or washed with Maalipesu detergent.</p>
Recommended primers	Fontecryl SC-MR 10.
Recommended topcoats	Fontecryl 25, Fontecryl SC 50, Fontecryl SC-EF 50, Fontecoat EP 50, Temalac FD 50, Temalac FD 80, Temalac ML 90, Temadur 20, Temadur 50, Temadur 90, Fontedur HB 80, Duasolid 50, Temathane 50, Temathane 90, Temathane PC 50, Temathane PC 80, Temacryl EA 50, Temacryl AR 50.
Application conditions	<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>
Application	<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 120–180 bar. Spray angle shall be chosen according to the shape of the object.</p> <p>For brush application the product should be thinned according to the circumstances.</p>
Thinners	Water
Cleaning of equipment	<p>Thinner 1109</p> <p>Clean the spraying equipment immediately after use as follows:</p> <ol style="list-style-type: none">1. Run the equipment with water to remove excess paint from the equipment.2. Run the equipment with Thinner 1109, at least two times. <p>Wash the equipment with water before starting to paint again. Unwashed equipment can cause serious surface defects.</p>
VOC	<p>The Volatile Organic Compounds amount is 65 g/litre of paint.</p> <p>VOC content of paint (thinned 10% by volume) is 59 g/l</p> <p>VOC 2004/42/EC (cat A/i-WB) 140 g/l (2010)</p>
HEALTH AND SAFETY	<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>

For industrial and professional use only.



Fontecryl SC-MR 10

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.