



Metacril FR

Let's shine

Semi-glossy colorable methacrylic resin

CHARACTERISTICS

METACRIL FR is a single-component product based on methacrylic resins in solution, suitable for all mineral substrates, and specifically designed for the protection of reinforced concrete, serving as an antagonistic method against its carbonation.

METACRIL FR exhibits high resistance to the diffusion of acidogenic gases (carbon dioxide, sulfuric anhydride) and saline solutions, thus preserving the alkalinity of the treated concrete and inhibiting the carbonation process. Additionally, it provides strong water repellency, blocking the passage of pollutants from the exterior to the interior and keeping the wall or surface dry while maintaining vapor permeability.

METACRIL FR is highly resistant to the alkalinity of the concrete UV radiation, temperature fluctuations, and general atmospheric agents.

HOW TO USE

PREPARATION OF THE SUBSTRATE: apply only to load-bearing, clean, dry surfaces free from dirt, grease, and salts. Mechanically remove all loosely adhering parts (old plaster, debris, old paint).

APPLICATION: it can be applied using airless, air-assisted spray, brush, or roller in two coats, with an average consumption per coat of 250-400g/m². Apply undiluted or diluted with 3-20% of **XILO 1**, depending on the chosen application method.

Apply under conditions of relative humidity below 80% and at a temperature ranging from +5°C to a maximum of 40°C, on cool surfaces not heated by the sun.

N.B: applying the product on surfaces with the presence of salt efflorescence or subject to rising dampness does not guarantee durable adhesion and does not exclude the formation of defects. A preliminary coat of solvent-based sealer (primer) is mandatory on particularly absorbent or non-uniform surfaces before using the product.

Let's shine is a line:

FEDERCHEMICALS™ s.r.l.

Via G. Borsi, 2 - 25128 Brescia - Italy

Tel. +39 030 3385578 - info@federchemicals.it

www.federchemicals.it

Metacril FR



20 Kg

▼ USAGE AND HARDENING TIMES

APPLICATION DATA

AIRLESS

Dilution	3÷6 % v/v
Nozzle diameter	0.015÷0.021 in
Pressure	120÷150 atm
Compression ratio	30 : 1

AIR-ASSISTED SPRAY

Dilution	10÷20 % v/v
Nozzle diameter	2.2÷2.5 in
Pressure	3.5÷5 atm

BRUSH / ROLLER

Dilution	5÷10 % v/v
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CURING TIMES AT 20°C and 50% U.R

To touch: 1 - 2 hours

Recoatable 12 hours

TECHNICAL DATA

Water vapor diffusion resistance coefficient (DIN 52615)	15 - 10 ³
Capillary water absorption "A" value	< 0.6 kg/m ² h ^{0.5}
CO ₂ diffusion resistance coefficient (ASTM D1434):	> 2.5 - 10 ⁶

▼ CAUTION

Do not apply under direct sunlight, wind, or in the presence of fog or rain.

▼ TOOL CLEANING

The equipment used for preparation and application must be cleaned immediately after use.

▼ AVAILABLE COLORS

All standard RAL colors.

▼ INDICATIVE COVERAGE

Average consumption per coat: 250-400 g/mq.

▼ STORAGE

The product has a shelf life of 12 months from the delivery note date, provided it is stored indoors, in sealed packaging, protected from heat sources and freezing, at a temperature between +5°C and 30°C. If the material has been stored beyond the recommended storage stability duration, it may not necessarily be unusable, but a qualitative check on the application-related characteristics should be carried out beforehand.

▼ LIMITS OF RESPONSIBILITY

We decline all responsibility for work and damage which might result from improper or incorrect use of the product. The indications supplied with our product specifications and instructions for use are the results of accurate laboratory tests and experience in the field. However, as it is not possible to forward other evidence, when the products are used, these indications shall not be binding and do not imply liability on our part. As well as following good working practices, before applying the product we recommend you read the safety recommendations and the directions on the package. For the best professional results, it is advised to test a small area first, for compatibility with the surface to treat and the desired effect. This preliminary testing is also useful to determine the consumption according to the characteristics of the material the product will be used for and to the type of processing. The reproduction, even partial of this product sheet is forbidden. The data refer to the standards in force at the time of printing, 2020. The company reserves the right to make any changes without notice.

PRODUCT FOR PROFESSIONAL USE

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