

Smartcoat



Structuring, smoothing, highly resistant, unifying acrylic emulsion paint. MOULDS AND ALGAE RESISTANT FORMULA.

Mod. 51 Rev 64

Last update 24/03/2022

CHARACTERISTICS:

Multi-purpose paint for interior and exterior, composed of acrylic emulsions and micro-emulsions. It contains specifically granulated marble inert fillers and is highly resistant to abrasion. **Mould and algae resistant formula.**

Thanks to its properties, such as remarkable filling power, opacity and consolidating power, **SMARTCOAT** is the ideal product to obtain a uniform surface, significantly reduce the absorption rate, and guarantee good adherence for the application of both paints and textured coatings. Being composed of acrylic microemulsions and thanks to its excellent adherence properties, **SMARTCOAT** can be applied directly to compact surface without priming them. No chalking or loose paint issues will occur.

With **SMARTCOAT** it is possible to obtain a pleasant rustic effect but simply applying it by roller or brush. For a smoother grainy effect, it is also possible to complete the application by lightly trowelling the surface with a plastic trowel. **SMARTCOAT** qualifies for **LEED®** and **GBC (Green Building Council) credits.**

SMARTCOAT is available **EXTRATHIN** (max grain size 0.1 mm), **MEDIUM GRAIN** (max grain size 0.4 mm) and **COARSE GRAIN** (max grain size 0.7 mm). **SMARTCOAT** can be coloured with **COLORPLUS®** tinting system.

The low environmental impact of the product in all phases of its life cycle is proven by its Environmental Statement which shows the LCA (Life Cycle Assessment) study. Formaldehyde and formaldehyde donors were not intentionally added to the formulation of this product.

USE:

SMARTCOAT can be applied both in interior and exterior on plaster, concrete, gypsum, skimcoat, stone, and all other building materials with a good absorption rate and porosity. It is also suitable in food rooms and commercial spaces as it is a safe and odourless product.

INTERIOR: SMARTCOAT can be used as a primer (**SMARTCOAT 0.1 mm**), coloured finish coat to smooth and decorate the walls with a single product, as a basecoat for decorative finishes, as a filling and unifying ground coat, as an intermediate coat for mineral finishes, coloured in the same colour as the subsequent coat.

EXTERIOR: SMARTCOAT can be used a primer for new mineral coatings (**SMARTCOAT 0.1 mm**), as a finish coat (**SMARTCOAT 0.4 mm** or **SMARTCOAT 0.7 mm**), as an intermediate coat for smooth finishes or textured coatings such as **QUARZITE SPATOLABILE PLUS** and **QUARZITE SPATOLABILE VENEZIA**. In exterior **SMARTCOAT 0.1 mm** cannot be used as final coat, but only as basecoat.

PREPARATION AND APPLICATION:

Scrape and brush off loose paint and plaster. Make sure the surface is compact, dry and clean. Treat in advance any humidity, mould, microorganism, and effloresce. Presence of moulds, fungi, algae should be treated in advance with **MUROSANO RISANANTE** and let it act for at least 8 hours. Dilute **SMARTCOAT** with water (max 10%) before use.

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SMARTCOAT can be directly applied, without using any primer, to compact surfaces with no chalking or loose paint. Mix well then apply two coats by brush or roller to obtain rustic grainy finish; in order to obtain more homogenous and smooth texture, after the application, lightly polish the surface with a plastic trowel when the product is still fresh.

IMPORTANT NOTES:

- Before application, make sure that the substrate is perfectly dry and cured. Surface must be free from dirt, grease, mould, fungi, bacteria, efflorescence or any other substance that could compromise the good outcome of the work.
- Prevent containers from freezing (min +5°C).
- Store in a cool, dry place and do not expose to direct sunlight.
- Use the product at room temperature. The painting ground temperature must be between +8°C and +35°C, with less than 75% relative humidity.
- During the drying stage the room and substrate temperature should be higher than 5°C.
- Do not apply if there is imminent risk of rain, under direct sunlight, in the presence of strong wind or persistent fog.
- Erect the scaffolding in order to allow for continuous application, at least until an architectural barrier is met, in order to avoid visible application joints, overlaps or difference in shades.
- Purchase the material in a single batch in order to avoid noticeable colour differences.
- Since we cannot anticipate or control the many different conditions under which this information and our products may be used, please contact our Technical Team for any additional information you may need.

TECHNICAL DATA:

Drying time at 20°C	Touch dry 1 - 3 h, overpainting 4 - 6 h
Dry film appearance	rough, grainy, matt
Coverage (per coat) On plasterboard and skimcoat On cement plaster	Extrathin 15-20 m ² /l Medium&Coarse 5-8 m ² /l Extrathin 12-16 m ² /l Medium&Coarse 5-8 m ² /l
Grain size	Extrathin grain 0.1 mm Medium grain 0.4 mm Coarse grain 0.7 mm
Specific weight	1.37 ± 0.05 kg/l Extrathin 1.32 ± 0.05 kg/l Medium 1.32 ± 0.05 kg/l Coarse
pH	~ 8,5
Dilution	With water
Base	White base A

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Colours	White, collections I Colori del Colore, NCS – Index, Armonie d'Interni
Packages	14 l, 4 l, 1 l

Emission limits of Volatile Organic Compounds (VOC) according to directive 2004/42/CE

c) Paint for exterior mineral surfaces;

Max VOC value g/l since 01.01.2010 = 40 g/l

Max VOC value in product: 10 g/l

The information contained herein is the result of scrupulously controlled tests and expresses our best and most up-to-date knowledge. Moreover, this information is intended for informational purposes only. The manufacturer cannot be held responsible for the improper use of these products, nor does the information contained herein provide a pretext for disputes of any type. This is also in light of the fact that the working methods employed are beyond our control.

Please refer to the relevant Safety Data Sheet.



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Environmental Statement_0131_Smartcoat

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“The future depends on what we do in the present” -Gandhi-

At Colorificio MP we believe this is not only a quote, but an awareness that leads us in every action we take. The care for the Human-Being and the Environment has been our top priority from the start, at it has led us to constant research of innovative and sustainable solutions to improve the living comfort. Among the firsts to focus on the manufacturing of water-based paints, today we manufacture a wide range of eco-friendly paints and plasters, air-purifying systems, low-VOC products. Customer care, respect for the Environment and high quality 100% Made in Italy have always been our cornerstones and driver for innovation.

With this in mind, Colorificio MP has completed a LCA (Life Cycle Assessment) study to verify, evaluate and improve the environmental impact of our products. Through this study we were able to determine new sustainability goals and gain greater awareness regarding the processes that take place within the product life cycle and identify possible areas for improvement. The following environmental sheet contains information about LCA and LEED. The low environmental impact of the product in all phases of its life cycle is proven by its **Environmental Statement** which shows the LCA (Life Cycle Assessment) study. Formaldehyde and formaldehyde donors were not intentionally added to the formulation of this product.

Life Cycle Assessment (LCA)

LCA (Life Cycle Assessment) is a study aimed to analysing the environmental impact of a product, process or service during all the stages of its life cycle.

Through the LCA analysed according to UNI ISO 14040-44 (ISO 2006; ISO 2018) standard it is possible to quantify the potential environmental impact associated with a product or service.

The method is standardized and involves the use of indicators for the analysis of cause-effect relationships between the inventory of direct and indirect inputs and outputs of material and energy associated with the system, taking in consideration their impact on human health and on the Environment.

The analysis takes place in four phases:

1. Goal and Scope

The main purpose of the LCA study is to identify the environmental performance of SMARTCOAT and take, where possible, improvement actions.

The analysis takes into account direct and indirect inputs and outputs of material and energy for 1 kg of product (functional unit), consumption rate of SMARTCOAT is 0.12 kg/m².

The system boundaries comply with the requirements of an EPD "from cradle to gate with options" and include the extraction of raw materials (upstream A1), transport to the production site (upstream A2), the manufacturing



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processes of the product at the MP Colorificio plant (core process A3), and the distribution to customers (downstream A4), which is optional.

2. LCI – Life Cycle Inventory

The required data to perform this analysis were gathered by the company for the inputs and outputs of material and energy from the manufacturing site and from the suppliers for all information concerning the life cycle of the raw material purchased.

When primary data were not available, the inventory was completed with bibliographic searches, not only in scientific journals, but also on the documentation produced for EPD certified products and the use of the Ecoinvent 3 database (Wernet et al., 2016) to support LCA analysis.

Where this was not possible, some approximations were necessary, supported by the technical data sheets to identify a product similar in chemical composition and technical properties to that used in the production process and available in the literature.

3. LCIA – Life cycle Impact Assessment

The evaluation of the environmental impacts connected to paints has been performed by applying the EPD (2013) method as recommended by the Swedish Environmental Management Council (SEMC) for the creation of the Environmental Product Declarations.

The categories of environmental impact analysed include global warming potential, photochemical oxidation, abiotic depletion, acidification and eutrophication.

		Unit	A1	A2	A3	A4	Totale
IMPACT CATEGORIES	Global Warming Potential	kg CO ₂ eq	0,82	0,03	0,02	0,15	1,02
	Photochemical oxidation	mg C ₂ H ₄ eq	466,82	5,60	6,62	25,54	504,57
	Abiotic depletion	mg Sb eq	3648,84	0,05	0,36	0,81	3650,06
	Acidification	g SO ₂ eq	4,84	0,20	-0,09	0,51	5,45
	Eutrophication	g PO ₄ eq	1,51	0,04	-0,02	0,12	1,65

4. Life Cycle Interpretation

Overall, the most significant contribution in all impact categories is the module associated with the extraction of raw materials (A1). The A3 module associated with the manufacturing of products at the Colorificio MP production site, benefits from the consumption of electricity generated by green sources and the surplus produced by acidification.



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LEED e GBC

LEED (Leadership in Energy and Environmental Design) is a voluntary certification program developed by U.S. Green Building Council (USGBC). Its main goal is to promote the development of high-performance sustainable buildings, through the use of a credit system. LEED promotes a sustainability-oriented approach, awarding building performance under valuable aspects such as, materials and sources used, the reduction of CO2 emissions, the improvement of indoor air quality, energy and water savings, design and site selection.

GBC protocols were instead developed taking inspiration from the respective LEED rating systems, but they take into consideration the Italian and European construction and regulatory reality.

Smartcoat contributes with the following credits to LEED rating system:

LEED BD+C V4.1	GBC HOME	COMPLIACE	POINTS
MR CREDIT - <i>Building Life-Cycle Impact Reduction</i>		LCA study	1-6 points
MR CREDIT - <i>Building product disclosure and optimization – environmental product declarations</i>	MR CREDIT 4 – <i>Products environmental optimization</i>	LCA study	1-2 points
MR CREDIT - <i>Building product disclosure and optimization – material ingredients</i>		<ul style="list-style-type: none"> • Material ingredients report → List of chemical substances • Ingredients optimization → No dangerous substance 	1-2 points
MR CREDIT - <i>PBT source reduction – Lead, Cadmium, and Copper</i>		Cadmium and Lead free	2 points
MR CREDIT - <i>Construction and demolition waste management</i>	MR CREDIT 2 – <i>Construction and demolition waste management</i>	The MP products are delivered on site through the use of recyclable or reusable materials, such as PP recyclable PP packaging and reusable wooden pallets.	1-2 points
EQ CREDIT - <i>Low emitting materials</i>	QI CREDIT 3 – <i>Low emitting materials</i>	<ul style="list-style-type: none"> • Emission → N.A. • Content → N.A. 	1-3 points
	MR CREDIT 5 – <i>Materials extracted, processed and produced at a limited distance</i>	Credit compliance depends on the location of the project site	1-2 points

Table 2 – Potential LEED and GBC HOME credits.

*Colorificio MP cannot guarantee that the above-mentioned credits will be obtained for all projects that are applying for LEED and GBC HOME certification.

For each specific project it will be responsibility of the project manager and/or head engineer to evaluate.