

UMANA SMALTO MURALE

SCHEDA TECNICA

Revisione : 10/10/2024

Prodotto: **Umana smalto murale**

Categoria: Umana

Azienda: Loggia

Water-based wall enamel for interiors with Ecoactive photocatalytic properties with SARC patent. Innovative system for the reduction and mitigation of environmental pollution according to the guidelines of the Ministerial Decree. n.13959 of 04/01/2004.

For the Human line, the first research project was implemented to establish the virucidal degradative activity against SARS-COV-2, the pathogen responsible for the covid-19 pandemic. The results of the research revealed that the active ingredient of Umana has a marked virucidal action against SARS-COV-2. This effect is evident already at contact times in the order of minutes and remains constant over time.

General Characteristics

Water-based acrylic wall enamel for interiors, both glossy and matt, with excellent expansion and quick drying, non-yellowing. It is odourless, non-flammable, ideal for application in closed environments. Umana mural enamel makes use of the most recent technological innovations which make it a paint with PHOTOCATALITIC PROPERTIES. In particular, it uses the patented SARC1 technology. The antibacterial photocatalytic action, determined by the introduction of silver salts into the formula in combination with nanoparticle titanium dioxide, inhibits and prevents the development of mold which generally proliferates in the environment. Photocatalysis, like chlorophyll photosynthesis, oxidizes polluting agents and transforms them into inert agents. The SARC* system stabilizes the applied paint film, protecting it from premature deterioration caused by the photocatalytic action of the active ingredients. The photocatalysis phenomena, in fact, are omnidirectional, that is, they attack the organic substances present in the surrounding environment as well as those contained in the paint itself. The SARC system patented by Loggia Industria Vernici constantly and in a controlled quantity releases an antioxidant substance of vegetal origin which in fact, unlike other photo-active painting systems, guarantees high photocatalytic activity and high durability and chromatic stability of the surface.

Umana mural enamel complies with the UNI 11021:2002 "Paints and varnishes" standard. Products and systems for painting environments with the presence of food (Test Report n.30/16 and Evaluation according to the VAA 017/2016 protocol released by TERMOTECH ECO srl). to guarantee the conformity of surfaces according to the HACCP protocol to prevent possible food contamination. [1] The details of the SARC patent are shown at the bottom of the sheet.

* The details of the SARC patent are shown at the bottom of the sheet.

Application

Interior wall paint on surfaces carefully prepared according to specific cycles

Preparation



New Internal Surfaces: Make sure that the surface is perfectly dry and cured - no less than 4 weeks for civil plasters and 2 weeks for premixed plasters. If necessary, fill any holes or imperfections with FLYSTUK and sand; finally clean the surfaces. Then apply a coat of UMANA fixative and after 4-6 hours paint with two coats of Umana wall enamel following the technical instructions below.



Internal Painted Surfaces: Eliminate any traces of mold by brushing away the efflorescence after having treated them with an anti-mold detergent. Then sanitize with a coat of MUFFACID. Remove flaking residues of old paint and, if necessary, fill and smooth imperfections with FLYSTUK; sand and clean the surfaces. Then apply a coat of UMANA fixative and after 4-6 hours paint with two coats of Umana wall enamel following the technical instructions below.



Application Methods



Brush and Roller: Dilute 3% with water for both the first and second coat. Wait 6-8 hours between one application and the next.

Spray: Dilute 5-10% with water for both the first and second coat. Wait 6-8 hours between one application and the next. Gun pressure 3-4 Atm, nozzle diameter 1.7-2 mm.

Airless: In airless applications the dilution varies depending on the equipment and pressure used. Indicative values: 5% dilution with water and nozzles of 0.017-0.019", at a pressure of 120-150 Atm.

| | | |
|-----------------------------------|------------|-------------|
| Application temperature: | +5 ÷ +35 | °C |
| Relative humidity of application: | < 85% | |
| Recommended thickness: | 30 ÷ 35 | µm per coat |
| Dust dry: | 0,5 ÷ 1 | h |
| Repaintable after: | 6 ÷ 8 | h |
| Deep dry: | 24 | h |
| Tool cleaning: | with water | |

Painting:

The product is marketed in a wide range of colours, but can also be colored with the tinting system of the L'ANGELO or MAXXI line and with the universal dyes found on the market.

It is advisable to mix different manufacturing batches of the same color together to avoid possible differences in shade during application.

| | | |
|--------------------|-------------------------|------|
| Specific weight: | 1,35 ÷ 1,40 | Kg/l |
| Viscosity: | 30000 - 35000 | cPs |
| Solid in weight: | 68 % | |
| Theoretical yield: | 14- 16 | mq/l |
| Color: | White and pastel colors | |
| Appearance | brilliant/satin | |
| Packaging: | 0,750 - 2,5 -10 | l |

Technical information

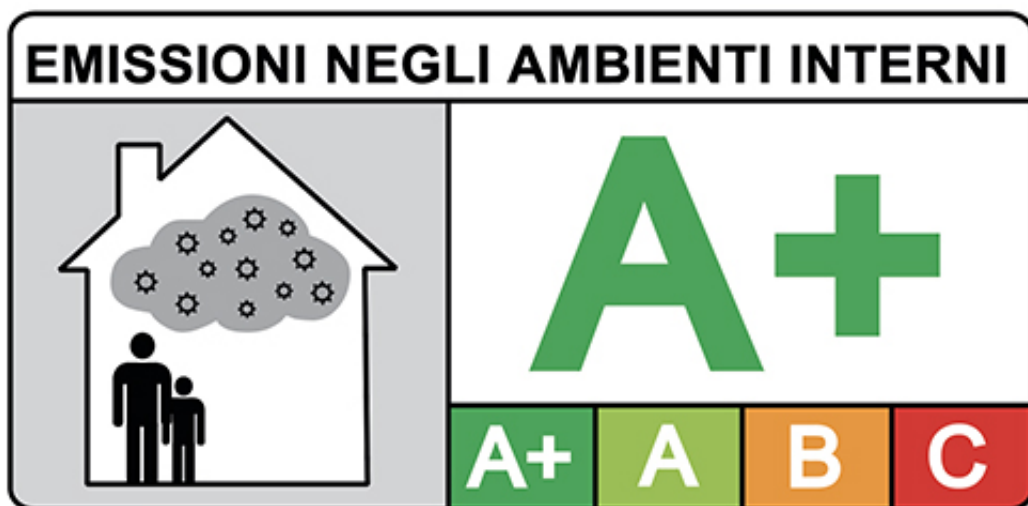
| | | | |
|----------------------------|-----------|-----------|-----------------------------|
| Resistance to wet brushing | ISO 11998 | Class 1 | < 5 µm 200 cicli |
| Brilliance (Gloss) | ISO 2813 | Brilliant | 60 ≤ c < 80 (geometria 60°) |
| Brilliance (Gloss) | ISO 2813 | Matt | < 10 (geometria 85°) |
| Maximum particle size | ISO 1524 | Fine | < 100 |

| CLASSIFICATION ACCORDING TO UNI 10795 | | | |
|---|------------|----------------|-------------------|
| Measure | Norme | Classification | Result |
| Covering power (Ywhite/Yblack) | UNI 11271 | Class 2 | 98 ≤ c < 99,5 |
| Water vapor diffusion WDD (Breathability) | ISO 7783-2 | High | >150 g/m2 in 24 h |

Product compliant with the CAM Edilizia Italia regulation (392-2020-00553802_E_EN)

**PRODOTTO
CERTIFICATO
CAM**

and to the French regulation on the emission of VOCs and content of CMR substances (carcinogenic, mutagenic and toxic for reproduction) (392-2020-00553802_W_EN)



Storage:



The unopened product, stored intact in a dry and cool place, has a storage life of not less than 24 months.



After use carefully close the package and store it upside down.

Minimum storage temperature: + 5 ° C

Maximum storage temperature: + 30 ° C

Safety Precautions:

For all information relating to the handling of the product as well as its correct disposal, please refer to the Safety Data Sheet.

Warnings

The information contained in this sheet is provided to the best of our technical knowledge. However, these indications and suggestions cannot have the value of a guarantee for the applicator, since the conditions of use of the product are beyond our direct control. It is therefore advisable to ascertain the suitability of the product for the specific case with preliminary tests.

SARC patent: Bactericidal water-based paint based on coupled nanocrystalline semiconductors stabilized through the use of controlled-release antioxidants.

Owner: Loggia Industria Vernici S.r.l.

Filing application: IT2006LT00009 31082006

Year of filing: 2006

Patent code: IT2006LT00009

Year of release: 2009

Loggia Industria Vernici S.r.l. Via Colle d'Alba di Levante – 04016 B.go S. Donato - Sabaudia (LT) – ITALY

Tel. (+39) 0773 562212, Fax (+39) 0773 562034. www.loggia.it, E-mail commerciale@loggia.it.

BVQI certified company for the UNI EN ISO 9001-2000 quality system.