

UMANA MINERALE AI SILICATI

SCHEDA TECNICA

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Prodotto: **Umana Minerale ai silicati**

Categoria: Umana

Azienda: Loggia

For UMANA 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 have revealed that the active ingredient of Umana has a marked virucidal action against SARS-COV-2. This effect can already be seen at contact times in the order of minutes and remains constant over time..

General Characteristics

Potassium silicate-based paint with highly resistant inorganic pigments, additives and selected mineral fillers. Furthermore, thanks to the presence of nanotitanium it has bactericidal, anti-mould and anti-allergic properties. For this formulation composition, the layer of paint applied does not form a film but, by reacting with the carbon dioxide in the air, the silica precipitates on the support, initiating a reaction with the calcium salts present on the plaster, forming calcium silicate, mineral salt with chemical-physical characteristics similar to building materials. Therefore the paint has excellent adhesion on all types of building agglomerate, without flaking or detachment phenomena; maximum breathability, as the microcrystalline structure originating from the precipitation of colloidal silica has the same porosity as plaster, allowing humidity to escape: unassailable by mold and bacteria also due to the presence of nano titanium. In particular, it exploits the patented SARC1 technology. The photocatalytic antibacterial action, determined by the introduction of silver salts in the formula in combination with nanotechnologies, inhibits and prevents the development of molds which generally proliferate in the environment. Photocatalysis, like chlorophyll photosynthesis, oxidizes pollutants 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.

Application

Used in the restoration of historic centres, for the prestigious coloring of villas, farmhouses, etc. Applicable on plasters based on hydraulic binders, gypsum and absorbent conglomerates of various kinds as long as they are new and non-chalking.

Preparation



New External Surfaces: Make sure that the substrate is perfectly dry and seasoned - no less than 4 weeks for civil plasters and 2 weeks for premixed plasters. If necessary, level any imperfections with an appropriate exterior mortar; finally sand and clean the surfaces. Then apply a coat of SILPRIMER sealer and after 24 hours paint with two coats of Umana paint with silicates following the technical indications below.



Painted External Surfaces: In this case it is necessary to completely remove the old paint if it is of a plastic nature (quartz), because the details of the patent are given at the bottom of the sheet. would allow the silicization of the product. Then apply a coat of SILPRIMER sealer and after 24 hours two coats of UMANA PITTURA AI SILICATI following the technical indications below. A viable alternative today is to use a silica gel product (TOTALSIL) which is applied to already painted surfaces or to use the FONDO DI CONTATTO connecting primer.



Application Methods



Brush and Roller: Dilute 10-15% with SILPRIMER for both the first and second coat. Wait 24 hours between one application and the next.

Airless: In airless applications the dilution varies depending on the equipment and pressure used.

Warnings: Do not apply on surfaces exposed to the sun.

Application temperature:	+5 ÷ +35	°C
Relative humidity of application:	< 85%	
Recommended thickness:	35 ÷ 50	µm per coat
Dust dry:	1	h
Repaintable after:	24	h
Deep dry:	48	h
Tool cleaning:	with water	

Tinting:

The product can be colored with the tintometric systems of the L'ANGELO OX line, as well as with the universal oxide-based dyes available on the market.

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

Specific weight:	1,35 ÷ 1,45	Kg/l
Viscosity	20.000 ÷ 30.000	cPs
pH	11 – 12	
Solid in weight:	62%	
Theoretical yield:	7 – 8	mq/l
Color	white and color card	
Appearance:	mat	
packs:	4- 10	l

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.

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.