

# UMANA ARIA NUOVA

## SCHEDA TECNICA

Revisione : 09/10/2023

Prodotto: **Umana Aria Nuova**

Categoria: Umana

Azienda: Loggia

Washable heat-insulating anti-condensation water-based paint for interiors with Ecoactive photocatalytic properties with SARC patent Innovative system for the abatement and mitigation of environmental pollution according to the guidelines of the Ministerial Decree. n.13959 of 04/01/2004.

The first research project for the line 'Umana' 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

Umana Aria Nuova is a paint that acts on the quality of indoor air thanks to an innovative technology that allows the main pollutants present inside buildings to be captured and neutralized.

Umana Aria Nuova is formulated with special emulsions stiro hollow glass microspheres which ensures the applied film has a "Double Glass" type insulating effect due to the cavity of the spheres and their low thermal conductivity. Consequently there will be a notable reduction in condensation.

Umana Aria Nuova 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 photocatalytic antibacterial action, determined by the introduction of silver ions and rare earths into the formula in combination with nanotechnologies, 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 support. 1 The details of the patent are shown at the bottom of the sheet. Suitable for environments where food is produced, processed and distributed.

Umana Aria Nuova complies with the UNI 11021:2002 "Paints and varnishes" standard. Products and systems for painting environments with the presence of food (Test report n.042/2016 released by TERMOTECH ECO srl). to guarantee the conformity of the surfaces according to the HACCP protocol to prevent possible food contamination.

## Application

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Indicated as a definitive solution in all those places where there are strong thermal exchanges between inside and outside with the formation of condensation and mould. It therefore finds excellent use for beams, ceilings, corners, basements, etc. Its use is indoors. Applicable on plasters based on hydraulic binders, gypsum or plasterboard, and absorbent conglomerates of various kinds, both new and old, as long as they are not chalky.

## Preparation

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**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 insulating fixative and after 4-6 hours paint with two coats of Umana Aria Nuova following the technical instructions below.



**Painted Internal Surfaces:** Remove any traces of mold by brushing away the efflorescence after treating them with acid. 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 insulating fixative and after 4-6 hours paint with two coats of Umana Aria Nuova following the technical instructions below.



## Application Methods

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**Brush:** Dilute both the first and second coat 5% with water. Wait 5-6 hours between one application and the next.

**Roller:** Dilute both the first and second coats at 5% with water. Wait 5-6 hours between one application and the next.

**Airless:** The use of airless is not recommended due to the presence of hollow glass spheres which can clog the gun.

Application temperature:	+5 ÷ +35	°C
Relative humidity of application:	< 85%	
Recommended thickness:	35 ÷ 50	µm per coat
Dust dry:	0,5	h
Repaintable after:	5 ÷ 6	h
Deep dry:	24	h
Tool cleaning:	with water	

## Painting:

The product can be colored with universal dyes found on the market, but it is only possible to obtain pastel shades.

**Warnings:** During the coloring phase it is advisable to mix the product by hand very slowly, avoiding the use of electrical appliances. Furthermore, adding water beyond that necessary for dilution should be avoided

Specific weight:	0,9 ÷ 1,1	Kg/l
Viscosity:	7.000 ÷ 9.000	cPs
pH:	8 - 9	
Solid in weight:	55%	
Theoretical yield:	8 – 10	mq/l
Washability	>10000	
Color:	white	
Appearance:	satin	
Packing	2,5 / 4 / 10	

## **Storage:**

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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:**

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

## **Warnings**

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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.

European Patent

Office

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

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