

### Technical characteristics

Water-based enamel suitable for use on all types of surfaces: iron, wood, zinc sheets, PVC etc.. It is easy to use and does not drip or run during application. It adheres well to the surface and dilates to give excellent coverage and at the same time is highly resistant to abrasion and washing. The product is non-yellowing. It is available in Gloss, Satin and Matt finishes, in over 2000 shades. Product certified in class A+ under emissions classifications (Decree of the Official French Gazzette dated 19th April 2011). It does not contain formaldehyde. Complies with the toy safety standard EN 71-3: 2019 + A1: 2021 Category III. Product with patented antibacterial technology HeiQ -Viroblock which offers effective and lasting protection of surfaces from microbes, germs and bacteria. (ISO 22196). Compliant with CAM (Minimum Environmental Criteria), III level certification. EPD.

### Ideal Use

On iron, wood, zinc, PVC etc. on interior and exterior surfaces.

### Surface Preparation

Clean the surface to be treated, removing any loose material. Traces of dirt or grease must be removed using appropriate products. On iron: sand down and in the presence of rust apply one coat of CONVERTITORE ECOLOGICO by OIKOS followed by a coat of ANTIRUGGINE ECOLOGICO by OIKOS On wood: sand down and apply a coat of ECOFONDO RIEMPITIVO by OIKOS. Once completely dry, sand down with fine sandpaper. On zinc sheets, PVC and smooth surfaces: clean and degrease, where possible sand down with fine sandpaper. Following this apply one coat of ECOAGGRAPPANTE by OIKOS. On already painted surfaces: sand down with fine sandpaper, apply one coat of SOTTOSMALTO ECOLOGICO by OIKOS.

### Application method

Apply two coats of ECOSMALTO UNIVERSALE using a special brush for acrylic enamels or roller leaving 5 ÷ 6 hours between coats. For application by spray gun dilute with 5% drinkable water (1,3 ÷ 1,7 mm nozzle).

### Safety Information

The product is free of heavy metals such as lead or chrome. It does not contain toxic solvents, aromatics or chlorides. There is no risk of any dangerous polymerisation. The product is considered to be a non-dangerous substance if used in the technically correct manner. Normal cautionary measures for the handling of water based paints are advised. No special arrangements are required for the storage, movement and transportation of the product; the containers, residue, eventual spilt material should be cleaned up using absorbent inert material such as sand, soil etc. etc. and then disposed of in accordance with the regional and national regulations in force at that time. Transportation must be carried out in accordance with international agreements.



### The application

Dilution	By brush or roller: ready to use. By spray gun: 5% drinkable water
Yield	8 ÷ 10 m <sup>2</sup> /l two coats
Application tools	Brush for acrylic enamel, roller, spray gun (1.3 – 1.7 mm nozzle)
Base coat	NOVALIS ANTIRUGGINE ECOLOGICO, NOVALIS ECOFONDO RIEMPITIVO, NOVALIS ECOAGGRAPPANTE, NOVALIS SOTTOSMALTO ECOLOGICO BY OIKOS
Application temperature	+5°C ÷ +36°C (with relative humidity not exceeding 80%)
Drying time: tack free	2 ÷ 4 h (temperature= 20°C humidity not higher than 75%)
Drying time: washing	7 days (temperature= 20°C humidity not higher than 75%)
Drying time: fully cured	36 h (temperature= 20°C humidity not higher than 75%)
Drying time: for painting over	6 h (temperature= 20°C humidity not higher than 75%)
Tools cleaning	Water

### The product

Composition	Special acrylic resins in water dispersion, titanium dioxide based fillers, organic and inorganic pigments and additives to aid application and the formation of the surface film
Specific weight	Gloss: 1.23; Satin: 1.2; Matt 1.25 kg/l. +/- 3% (white)
PH	8 ÷ 10
Gloss	Gloss: 85+/-5, satin: 50+/-5, matt 7+/-2 gloss (applied on gloss panel at 120 µm wet, reflectometer 60°C)
Viscosity	Gloss 2.000 ÷ 3.000, Satin 4.000 ÷ 6.000, Matt 3.000 ÷ 4.000 CPS +/- 5% Brookfield (RVT 20 revs/min at 25°C)
Storage Temperature	+2°C ÷ +36°C. Keep from freezing
Fire reaction	Negative when applied onto non inflammable surfaces. It is a water-based product with dry thickness less than 0.600 mm.
Resistance to wash	Conforms to norm DIN 53778: resistant to more than 1,000 abrasive cycles
Resistance to abrasion	Conforms to norm DIN 53778: resistant to more than 5,000 abrasive cycles
Complies with the toy safety standard	EN 71-3: 2019 + A1: 2021 Category III
Complies with the ISO 22196:2011 standard	Evaluation of antibacterial activity
CAM (Minimum Environmental Criteria)	III level certification. EPD
Emission limits of Volatile Organic Compounds (VOC) according to directive 2004/42/CE	Classification: A/d; VOC: 95g/l (max); Limit Phase II (from 01/01/ 2010): 130g/l
Colours	White + shades of the colour charts Novalis, Interior Acrylic Paint, RAL, NCS, DCS Decor Color System available in the versions Gloss, Satin and Matt.
Packaging	0.75 – 2.25 L

### Specifications

Apply an acrylic enamel compliant with the toy safety standard EN 71-3: 2019 + A1: 2021 and with antibacterial effect as per ISO 22196: 2011 such as ECOSMALTO UNIVERSALE using the specific primer according to the surface to be treated. All must be carried out in accordance with the norms of application, at a cost of .....mq. inclusive of materials and labour. Scaffolding not included.

### Note

The company Oikos Spa guarantees, to the best of its own technical and scientific knowledge, that the information contained in this technical data sheet is correct. Notwithstanding that indicated above, Oikos takes no responsibility for the results obtained through the use of this product in as much as it is not possible for Oikos to check or control the application method used. For this reason, we recommend that you check carefully that each product chosen, is suitable for each individual use to which it is put.

**OIKOS S.P.A. a socio unico**  
Via Cherubini, 2  
47043 Gatteo Mare (FC)  
info@oikos-group.it

**ITALIA**  
tel. +39 0547.681412  
**INTERNATIONAL**  
tel. +39 0547.681460