

Technical characteristics

NOVALIS UNIVERSAL ENAMEL by OIKOS is a low environmental impact, acrylic enamel for exteriors and interiors, suitable for use on all types of surfaces: iron, wood, zinc sheets, PVC etc. Its formulation makes NOVALIS UNIVERSAL ENAMEL by OIKOS easy to use as it does not drip or run during application. It adheres well to the support and dilates to give excellent coverage and at the same time is highly resistant to abrasion and washing. The product is non-yellowing due to its resistance to atmospheric agents and stability to light and possesses also a high elasticity. NOVALIS UNIVERSAL ENAMEL by OIKOS is available in gloss, satin and matt finishes. It has a low odour level is non-inflammable and is friendly to both humans and the environment.

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 use NOVALIS RUST CONVERTER by OIKOS followed by a coat of NOVALIS ANTI-RUST by OIKOS

On wood: Sand down and apply a coat of NOVALIS FILLING AGENT 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 NOVALIS SPECIAL PRIMER by OIKOS.

On already painted surfaces: sand down with fine sandpaper, apply one coat of NOVALIS ENAMEL UNDERCOAT by OIKOS.

Application method

Apply two coats of NOVALIS UNIVERSAL ENAMEL by OIKOS 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 ÷ 1,7mm nozzle).

Finish

NOVALIS SMALTO by OIKOS.

Specifications

Apply an acrylic enamel such as NOVALIS UNIVERSAL ENAMEL according to the surface to be treated. All must be carried out in accordance with the norms of application, at a cost ofmq. inclusive of materials and labour. Scaffolding not included.

The product

Composition	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)
Gloss	Gloss: 85+/-5, satin: 50+/-5, matt 7+/-2 gloss (applied on gloss panel at 120 µm wet, reflectometer 60°C)
pH:	8÷10
Viscosity	Gloss: 2000 ÷ 3000; satin: 4000 ÷ 6000; matt: 3000 ÷ 4000 CPS +/- 5% Brookfield (RVT 20 revs/min at 25°C)
Storage temperature	+2°C ÷ +36°C. Keep from freezing
Reaction to fire	Negative when applied onto non inflammable surfaces. It is a water-based product with dry thickness less than 0.600mm.
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
Emission limits of Volatile Organic Compounds (VOC) according to directive 2004/42/CE	<ul style="list-style-type: none"> • Classification: A/d • VOC: 95g/l (max); • Limit Phase I (from 01/01/2007): 150g/t • Limit Phase II (from 01/01/ 2010): 130g/t
Colours	White + shades of the colour charts Novalis, Interior Acrylic Paint, Top Exterior Line, RAL, NCS on the DCS Décor Color System by OIKOS, available in gloss, satin and matt
Packaging	0.75 – 2.25 l

The application

Dilution/Mixing	<ul style="list-style-type: none"> • by brush or roller: ready to use • by spray gun: 5% drinkable water
Yield	10 ÷ 12mq/l
Application tools	Brush for acrylic enamel, roller, spray gun (1.3 – 1.7mm nozzle)
Base coat	NOVALIS ANTIRUST, NOVALIS FILLIG AGENT, NOVALIS SPECIAL PRIMER, NOVALIS ENAMEL UNDERCOAT by OIKOS
Application temperature	+5°C ÷ +36°C (relative humidity not higher than 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 50%)
Drying time: fully cured	36 h (temperature= 20°C humidity not higher than 75%)
Drying time: painting over	6 h (temperature= 20°C humidity not higher than 75%)
Tools cleaning	Water

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 spill 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 company Oikos S.r.l 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.