



## SMALTOLUX hydro

**ECOLOGICAL POLYURETHANE - ACRYLIC HYPOALLERGIC WATER  
BASED ENAMEL WITH ANTIMICROBIAL ACTION**

### GENERAL CHARACTERISTICS

Ecological, polyurethane, acrylic water based enamel for interior use. Odorless. Innovative coating with antimicrobial efficiency. Due to its synthesis protects the film from growth of microorganisms (bacteria and fungi).

It can be used on surfaces of wood metal, glass, hard PVC, plaster, old alkyds etc, with excellent adhesion. Gives smooth, hard and elastic non yellowing finish. It offers prolonged open time with very good flow and leveling. It has been certified under EN 71-3 against heavy metal migration on children toys and furniture. Intended for use in areas with high humidity.

**Smaltolux hydro** has been awarded by The British Allergy Foundation (Allergy UK, [www.allergyuk.org](http://www.allergyuk.org)) for its performance against allergens caused by fungi and bacteria (as also about the minimal VOC and formaldehyde content) contributing to a better place of living for allergy and asthma sufferers. In medical literature it is well known and accepted that microbes act or produce allergens.

**Smaltolux hydro** has been tested by Paint Research Association (PRA – UK) for its performance as antimicrobial and easy clean coating as also for its performance against microbes (bacteria and fungi) proved tough enough causing hospital infections especially fungal infections in Intensive Care Units like *Staphylococcus aureus*, *Escherichia coli*, *Pseudomonas aeruginosa*, *Alternaria alternata*, *Aspergillus versicolor*, *Aspergillus niger*, *Aspergillus fumigatus*, *Candida albicans*, *Klebsiella pneumoniae*.

**Smaltolux hydro** is certified with European Ecolabel (EL/044/07) with the best wet scrub resistance and easy clean (Class 1, EN 13300/ISO 11998).

Minimised content of hazardous substances. Reduced volatile organic compounds (VOCs).

**Smaltolux hydro** is an ideal solution for:

- hospitals, intensive care units, surgeries, baby care units,
- hotels, schools, public buildings
- bakeries, food storage and pharma warehouses, military buildings, sport centres, breweries, and other surfaces exposed to damp conditions (kitchens, bathrooms), inadequate ventilation and air tight places as also places where high hygienic conditions are demanded contributing to a better indoor environment especially for allergy and asthma sufferers.

## TECHNICAL CHARACTERISTICS

|                               |  |
|-------------------------------|--|
| <b>Texture</b>                | : <b>GLOSS</b> : 70-80 units at 60°.<br><b>SATIN</b> : 25-35 units at 60°.<br><b>VELVET</b> : 6-12 units at 60°.   |
| <b>Specific gravity</b>       | : 1,05 – 1,35 kg/lit, depending on the shade.  |
| <b>Covering power</b>         | : 11 – 13 m <sup>2</sup> /lit per layer  |
| <b>Dilution</b>               | : up to 10% on volume with water using brush or roller and max 20% when using spray.   |
| <b>VOC class</b>              | : "Interior/exterior trim and cladding paints for wood and metal" Type WB. VOC limit =130gr/lit. Max VOC of product ready for use= 60gr/lit. VOC: organic volatile compounds with boiling point < 250°C. |
| <b>Formaldehyde emissions</b> | : <10 µgr/m <sup>3</sup> , 24 hours after paint application (ISO 16000-3, ISO16000-9, CET/TS15516, EN16402)  |
| <b>Drying</b>                 | : 2-3 hours touch free.  |
| <b>Recoatability</b>          | : 6 hours after first application. It is recommended that recoating should take place 18 hours after application for better results. Those times elongate in cold and wet weather conditions.            |
| <b>Adhesion</b>               | : 3,79 MPa according to ISO 4624 (Pull off adhesion).  |
| <b>Wet scrub resistance</b>   | : <b>Class I</b> according to EN 13300, method ISO 11998 (Test for clean ability and scrub resistance)   |
| <b>Antifungal properties</b>  | : Excellent antifungal properties against moulds <b>Class I</b> according to BS 3900:G6. Killing action 99,99% according to ISO 22196: 2007.   |
| <b>Shades</b>                 | : White and thousands of ecological shades via VECHRO Tinting system.  |

**PACKING:** 750ml, 2.5lt

## APPLICATION EQUIPMENT

Hair synthetic brush, roller, spray.

## SURFACE PREPARATION

To make sure of a successful paint adhesion, the surface has to be cleaned of oil, grassy substances, cropped paints, ink etc. Sandpaper well, remove dust and prime on Wood, Hard PVC, Aluminum etc, with 1-2 coats of SMALTOLUX hydro MASTER PRIMER and on metal surfaces with 1 coat of anticorrosive OXIDOL and 1 coat of SMALTOLUX hydro MASTER PRIMER afterwards.

## APPLICATION

Stir well. Apply 2 coats of **Smaltolux hydro**.

**Minimization of paint wastage:** for a surface of 10 m<sup>2</sup>, 1,6lt of paint is needed for two coats. Apply uniform on the surface and work with it not more than 5-10 min.

## CLEANING TOOLS

While working keep your equipment wet, either in the pot or in the paint launder. Strain well your tools from paint back to the pot and clean immediately with water and soap. Avoid washing materials entering into watercourses.

## APPLICATION CONDITIONS

Temperature 8-35°C and relative humidity lower than 80%. Contrary weather conditions may degrade product's quality.

## STORAGE

Store in a cool place, protect from freezing and sun exposure. Close the can well after application to keep in good condition. Recover unused paint for re-use. Reuse of paint can effectively minimize the product's life cycle environmental impact.

## LABELLING

Contains biocidal products [IPBC (55406-53-6), Zinc Pyrithione (13463-41-7) & "nano" Silver Chloride (7783-90-6)] for the preservation of the dry film. Do not dispose near surface water during or after use.

This product has been awarded with the Eco-label, eco criteria 312/2014/EE product category "indoor & outdoor paints and varnishes".



### Better for the environment ...

- Minimized content of hazardous substances
- Reduced volatile organic compounds (VOCs): 60gr/lit
- Good performance for indoor use

... better for you.



**Awarded to Smaltoplast Silk by Allergy UK.**  
Suitable for allergy and asthma sufferers as the product has been scientifically proven to reduce exposure to allergens

European ecolabel interior wall emulsion paint (water based) with eggshell finish. Odourless with minimal levels of VOC and zero formaldehyde, easy clean, hygienic coating with antimicrobial (fungi & bacteria) efficiency, which reduces the presence of fungal and bacterial allergens, contributing to a better indoor environment for allergy and asthma sufferers.

For more information as to why this product has been awarded the Seal of Approval visit the [www.allergyuk.org](http://www.allergyuk.org)