



## MONOSTOP VAPOR

Excellent quality, acrylic, insulating and breathable elastomeric paint



07.2021 v03

Packing: 0.75lt | 3lt | 10lt

### Description

Excellent quality elastomeric, acrylic paint, waterproofing of old or new exterior surfaces of concrete and plaster. It innovates because it shows high breathability values, but without falling short of elasticity and resistance to wet weather conditions. This property allows the film to emit larger amounts of moisture in the form of vapors than ordinary elastomerics and thus avoids the known phenomenon of film swelling with simultaneous water retention inside. It forms an elastic and waterproof membrane that covers all capillary cracks, while maintaining its elasticity even at low temperatures, protecting the plaster from cracks caused by frost. It has excellent resistance to ultraviolet radiation, which does not affect the whiteness and elasticity of the product, shows excellent resistance to stains of snail trail effect after rains or in wet environments and has increased resistance to the appearance of efflorescence effect. It has low permeability to CO<sub>2</sub>, protecting this way the concrete reinforcement. Finally, it demonstrates very high values of solar reflection, contributing to energy savings and maintaining lower temperatures inside buildings during the summer months.

### Purpose of Use

Painting of exterior plaster and concrete surfaces. Repainting of old already painted substrates. Ideal product as a final coating in thermal insulation systems due to the high breathability value.

### Product Characteristics

- CE marking
- Acrylic and insulating paint.
- High breathability (very low water absorption and high-water vapor diffusion (EN 7783, EN 1062).
- High resistance to the appearance of lines and stains after rain or in wet environments-snail trail (ASTM 7190-05)
- Resistance to the appearance of salts (efflorescence).
- Low CO<sub>2</sub> permeability – concrete reinforcement protection.
- Excellent adhesion and elasticity.
- Excellent resistance to frost, humidity, and weather condition changes.
- Excellent resistance to UV radiation (500 hrs-ISO 11507-2007)
- Excellent opacity.
- High coverage and whiteness. Cool paint properties (for the White)
- Easy to apply.
- Resistance to chalking (ASTM D 4214-98).
- High resistance to alkalis (ASTM D C1308-02, ASTM D 714-02).
- Prevents the growth of mold on the dried paint film.

## Shades

Available in White, Base A, Base B and Base C for the achievement of thousands of shades, using Berling's tinting system. By choosing shades Berling's color card with exterior marking, you ensure that are not affected by solar radiation.

## Suggested Coverage

8-11 m<sup>2</sup>/lt, per layer, depending on the absorbency and the type of the surface. In case of very demanding projects and if 3 coatings are required the breathability is not affected.

## Recommended application systems.

Old and new exterior surfaces

New surfaces		
<b>Primer</b>	Prime with primer suitable for exterior use (such as Super Primer, Nature Aquafix or Berling Nanoprimer), following their application instructions.	1 coat
<b>Final coating</b>	Monostop Vapor	2 or 3 coats in very demanding projects
Old- already painted surfaces		
<b>Preparation</b>	On already painted but healthy, non-stained surfaces, no special preparation is required. Good washing of the substrate is suggested before application for the removal of dust and salts. In the case of loose surfaces, rubbing with sandpaper is required. Then apply putty where necessary and repeat rubbing.	
<b>Primer</b>	In case of already painted but healthy and stable surfaces, no priming is needed.	
	In case of loose substrates, after preparing them as mentioned above, prime with Super primer which will stabilize and will reduce and equalize the absorbency of different substrates.	1 coat
	For chalked surfaces use Super primer or Nature Aquafix to stabilize them, before applying Monostop Vapor.	1 coat
	In case of surfaces with alkali salts use Berling's Super Primer, before the final coats.	1 coat
<b>Final coating</b>	Monostop Vapor	2 coats

## Application conditions

The application is carried out at an ambient temperature at least 10°C and a maximum relative humidity of 80%. Do not apply when there is a possibility of rain in the next 24 hours.

## Application Instructions

The surfaces to be painted should be dry and clean of any dust, grease, salt and old peeled paints. Any holes, cracks or unevenness of the wall should be puttied with Acrylic Putty or Berling Stucco Grid, following their application instructions. The product is applied by brush or roller after appropriate thinning.

## Technical Characteristics

<b>Density</b>	1,45 ± 0.02 gr/cm <sup>3</sup> , (ISO 2811), for Monostop Vapor White
<b>Viscosity</b>	125-130 K.U., 25°C (ASTM D562), for Monostop Vapor White

<b>pH</b>	8,5-9,0
<b>Gloss</b>	<3,5 units, 60°.
<b>Suggested coverage</b>	8-11m <sup>2</sup> /lt, per layer
<b>Drying time</b>	Touch dry 1- 3 hours, depending on the weather conditions. (the drying time might be elongated according to temperature and humidity conditions)
<b>Recoating</b>	Repaint after 24 hours, depending on weather conditions. (the drying time might be elongated according to temperature and humidity conditions).
<b>Thinning</b>	Thin with water at 10 - 15% by volume, depending on the application method
<b>Solar Reflection</b>	89% (ASTM G 173-03)
<b>Permeability to water vapor</b>	Class I (EN 7783-1, EN 7783-2)
<b>Water permeability</b>	< 0.1 Kg/m <sup>2</sup> . h <sup>0.5</sup> (EN 1062-3)
<b>Permeability to CO<sub>2</sub></b>	S <sub>D</sub> > 50m (EN 1062-6)
<b>Crack bridging ability</b>	A4 (>1,25 mm)
<b>Adhesion</b>	>0,8 N/mm <sup>2</sup> (EN 1542-2001)
<b>Thermal cycling without de-icing salt impact EN 13687-3:2002</b>	no bubbles, cracks, and delamination Pull-off-test >0,8 N/mm <sup>2</sup>

## ACCORDING TO 2004/42/EC

PHASE II, Subcategory c, Exterior walls and mineral substrate, Value limit V.O.C.= 40gr/lt, max VOC.=35gr/lt (ready to use product).

## Storage

Storage indoors to avoid exposure to high or low surfaces and high humidity conditions. Avoid sources of heat, radiation, static electricity, and storage near food. Keep container tightly closed. After opening can use product in a short period of time. Close the can well.

## Safety Instructions- Prevention of environmental harming

Wear protective gloves and goggles. Do not eat or drink anything while using the product. Always wash hands with appropriate cleaning products.

Clean tools after use with soap and water. Do not dispose eluants and paint remains in the sink, toilet or bin. Empty cans and paint residues must be disposed of in accordance with applicable laws and local regulations. Advice should be asked from local authorities regarding the disposal and collection of waste.

Keep out of reach of children. Always read the label before use.

For further information ask for the Safety Data Sheet of the product.

*All the above information is based on laboratory tests and long-term experience of the company's scientific personnel. Product quality is guaranteed by our operational system, which is based on the requirements of ISO 9001, ISO 14001 and ISO 45001 Standards and EMAS Regulation. As producers we don't take any responsibility for any damage that may be caused in cases that the product hasn't been used for the appropriate application and according to the application instructions.*

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