



# VIMACOLOR PU 50

Coloured  
two-component aliphatic  
polyurethane coating



konstruktive • **leidenschaft**



Strada Spartafino, 2  
12016 Peveragno (CN)



ph. +39 0171 38.38.00  
Fax +39 0171 33.93.95



info@vimark.com  
www.vimark.com



**DESCRIPTION**

**VIMACOLOR PU 50** is a two-component coloured protective coating for external surfaces based on aliphatic polyurethane resins. It gives a glossy or satin finish, high abrasion resistance, elasticity, good coverage combined with a high degree of finish. Its application allows you to obtain a smooth or non-slip finish on concrete, self-levelling coatings, plywood and resin screeds. It is ideal for the protection of concrete bridges, viaducts, silos, pylons etc.  
It can be used for surface finish of fiberglass, polyurethane insulation, waterproofing systems of any kind, or for protection against aggressive chemicals on steel surfaces or structures.

**COMPOSITION**

**VIMACOLOR PU 50** is a two-component liquid formula based on modified hydroxylated polyester resins and aliphatic isocyanates.

**MIXING AND APPLICATION**

**SUBSTRATE PREPARATION**

The surface must clean, dust-free, stable, dry and free from loose parts and oil, grease or wax contamination. If necessary power wash surfaces thoroughly. The preparation of concrete surfaces previously treated, must be done via single-disc rotary floor machine with carborundum discs or grinded with a diamond grinding wheel, followed by a careful removal of dust via power washing. On correctly prepared substrates apply a basecoat of **VIMACOLOR EPS 720**.

To prepare **VIMACOLOR PU 50** add component A to component B and mix with an electric drill at high speed until smooth and free of lumps, making sure to perfectly emulsify the two components. Use the product within 2 hours of mixing to avoid colour variations or minor relaxation.

Apply by brush, roller or airless spray in one or more layers.

Apply by spray to get the best visual effects of a matte or satin finish.

The waiting time between one layer and another must be between 12 and 72 hours.

To make the floor slip- resistant and non-slip it is possible to add to the last coat the powder product **ANTISKID** in the ratio of 5% in weight of the product.

**INDICATIVE AMOUNTS**

0,150-0,200 kg per m<sup>2</sup>.

**COLOUR**

RAL.

**PACKAGING**

7.5 kg Pack A+B  
*Component A:* tub of 5,0 kg.  
*Component B:* tub of 2,5 kg.

**STORAGE**

12 months in original intact packaging, protect from frost.

**RECOMMENDATIONS**

Do not apply in temperatures below + 10°C or above + 40°C.  
Mix the two components thoroughly before diluting / applying and use entire contents of both tubs.





**PRODUCT DATA**

<i>Appearance</i>	liquid	
<i>Colour</i>	RAL	
<i>Specific weight (A+B)</i>	1,15 ± 0,05 kg/l	EN ISO 2811
<i>Dry residue (A+B)</i>	57 ± 1 % p/p 40 ± 1 % v/v	EN ISO 3251
<i>Viscosity Stomer (A+B)</i>	70 ± 10	ASTM D 2532
<i>Brilliance</i>	> 80 Gloss 60° Glossy 50-60 Gloss 60° Satin	ISO 2813
<i>Elongation value</i>	10%	ISO 178
<i>Abrasion resistance (Taber grinding wheel CS 10, 1 kg, 1000 rpm)</i>	< 20 mg	ASTM D 4060/95
<i>Hardness</i>	220 Sec	ISO 1522
<i>Water resistance</i>	Excellent, 72 h a 40°C	ISO 2812-2
<i>Moisture resistance</i>	Excellent, 72 h, 95% U.R.	ISO 6270-1
<i>Mixture ratio</i>	100 : 50 A:B	
<i>Thickness</i>	52÷70 µ	

**APPLICATION DATA**

<i>Pot life</i>	2 hours
<i>Touch dry</i>	4-6 ore
<i>Minimum application temperature</i>	+ 10°C
<i>Maximum application temperature</i>	+ 40°C
<i>Minimum drying temperature</i>	- 20°C
<i>Maximum drying temperature</i>	+ 70°C
<i>Waiting time between layers</i>	after 12 hours within 72 hours
<i>Fit for walking</i>	12 ore
<i>Fit for light traffic</i>	36 ore
<i>Fit for heavy traffic</i>	48 ore
<i>Completely hardened.</i>	7 days

**CHEMICAL RESISTENCE**

**Tables**

<i>Class 1</i>	Complete or partial immersion.
<i>Class 2</i>	Spray, splash, frequent spills and fumes at high concentration.
<i>Class3</i>	Fumes at medium and high concentration and accidental spills.
<i>Class 4</i>	Low smoke aggressiveness and outdoor weathering.

**Organic acids**

<i>Acetic acid 10%</i>	Class 2
<i>Glacial Acetic Acid</i>	Class 3
<i>Citric Acid</i>	Class 1
<i>Formic Acid</i>	Class 1
<i>Lactic acid 10%</i>	Class 3
<i>Lactic acid 80%</i>	Class 3
<i>Maleic Acid</i>	Class 1
<i>Oleic Acid</i>	Class 1
<i>Oxalic Acid</i>	Class 1
<i>Stearic Acid</i>	Class 1

**Mineral acids**





<i>Chromic Acid 10%</i>	Class 2
<i>Chromic Acid 50%</i>	Class 2
<i>Chromic Acid 80%</i>	Class 2
<i>Hydrochloric acid 37%</i>	Class 2
<i>Nitric acid 10%</i>	Class 2
<i>Phosphoric acid 20%</i>	Class 2
<i>Phosphoric acid 70%</i>	Class 3
<i>Sulphuric acid 10%</i>	Class 2
<b>Alkali</b>	
<i>Ammonium hydroxide</i>	Class 2
<i>Calcium hydroxide</i>	Class 2
<i>Potassium Hydroxide</i>	Class 2
<i>Sodium hydroxide</i>	Class 2
<b>Acid salts</b>	
<i>Aluminium sulphate</i>	Class 2
<i>Calcium sulphate</i>	Class 2
<i>Ferric Sulphate</i>	Class 2
<b>Alkali salts</b>	
<i>Calcium bicarbonate</i>	Class 2
<i>Sodium carbonate</i>	Class 2
<i>Trisodium Phosphate</i>	Class 2
<b>Vapours</b>	
<i>10% ammonia</i>	Class 2
<i>Concentrated Ammonia</i>	Class 2
<b>Solvents</b>	
<i>Ethyl Alcohol</i>	Class 2
<i>Aliphatic Hydrocarbons (Fuel Oil, Diesel Oil, Kerosene)</i>	Class 1
<i>Aromatic hydrocarbons (Xylene, Toluene, etc.)</i>	Class 2
<i>Formaldehyde 37%</i>	Class 2
<b>Other</b>	
<i>Distilled water</i>	Class 1
<i>Mineral oils</i>	Class 1
<i>Sea water</i>	Class 1

**VOC**

<i>Category</i>	Two-pack reactive performance coatings for specific end use (S/j)
<i>VOC limits category</i>	500 g/l (2010)
<i>Maximum VOC product content</i>	470 g/l

**NOTE**

**Product for professional use.** The data and instructions in this data sheet are based on our best practical and laboratory experience. They refer to laboratory tests and should be considered indicative. In view of the different conditions of use and application, which depend on factors over which Vimark has no control (type of surface, environmental conditions, technical indications for fixing, etc.), those who use the product are responsible for ascertaining whether or not it is suitable for the intended purpose. Thus our warranty obligation merely covers the quality and fade-free characteristics of the actual product, and exclusively in relation to the aforementioned data. Vimark reserves the right to make technical modifications without prior notice. This technical data sheet voids and substitutes all previous editions. Updates will be published on the web site [www.vimark.com](http://www.vimark.com)

