



PLIO BETON

Anti-carbonation paint
for protecting and decorating
concrete surfaces



konstruktive · **leidenschaft**



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PRODUCT DESCRIPTION

PLIO.BETON is an anti-carbonation paint made of Hydro Pliolite[®] to protect and decorate surfaces in concrete. Formulated to prevent the stage of carbon dioxide ensuring an optimum protection of substrates from degradation due to carbonation.

The product gives excellent coverage with outstanding adhesion, good filling power due to a perfectly opaque film combined with an excellent fluidity and is applicable to all concrete substrates.

Excellent penetration allows it to be applied even in the absence of preliminary fixatives.

Available in colours from the collections **NATURAL**, **MINERAL** and **PREMIUM** by Vimark in addition to a wide range of other colours available in Vimark's tinting system.

COMPOSITION

PLIO.BETON is a waterproof paint based on Hydro Pliolite[®], new concept styrene polymers, special fillers and selected light resistant pigments.

MIXING AND APPLICATION

PREPARING NEW SUBSTRATES

New plaster must be perfectly seasoned, dry, stable, free of dust and inconsistent parts. Leave to mature any repaired patches until the binders have set.

In the case of absorbent surfaces, apply first coat of **PLIO.BETON** diluted with 30% of clean water. Wait for the base coat to complete dry before applying the finishing coats.

Any fillings performed after the first coat of paint should be treated with primer. Wait at least 2-4 hours before applying the finishing coats.

PREPARATION OF OLD UNPAINTED SUBSTRATES

The substrates must be perfectly seasoned, dry, stable, free from dust, release agents and poorly consistent parts. Clean surfaces to remove all traces of dust, dirt, grease or presence of efflorescence. Leave to season any newly plastered patches until the binders have set. Remove any mould after neutralization. In the case of significant surface crumbling, clean the surface by power washing.

With absorbent surfaces, apply first a coat of **PLIO.BETON** diluted with 30% of clean water. Wait at least 2-4 hours before applying the finishing coats.

PREPARATION OF OLD PAINTED SUBSTRATES

The substrates must be perfectly seasoned, dry, stable, free from dust, release agents and poorly consistent parts. Clean surfaces to remove all traces of dust, dirt, grease or presence of efflorescence. Leave to season any newly plastered patches until the binders have set.

In the presence of partially degraded paint, remove peeling paint that is not adherent to the substrate. Remove any mould after neutralization. Clean painted surfaces of free or loose paint by brushing. Remove the paint from substrates when necessary. In the case of significant surface crumbling, clean the surface by power washing.

In the case of absorbent surfaces, apply first coat of **PLIO.BETON** diluted with 30% of clean water. Wait for the base coat to complete dry before applying the finishing coats.

When applying to degraded old paint, apply a base coat by brush of **PLIO.FIX** diluted with 50% of clean water. Wait at least 2-4 hours before applying the finishing coats.





**INDICATIVE
AMOUNTS
REQUIRED**

0.125-0.150 kg per m² per coat.

COLOUR

White.

Collection: NATURAL.colours.

Collection: PREMIUM.colours.

Collection: MINERAL.colours.

PACKAGING

8 kg tub.

22 kg tub.

STORAGE

12 months in original intact packaging, protect from frost, not exposed to direct sunlight or heat sources.

RECOMMENDATIONS

Do not apply in temperatures below + 10°C or above + 30°C. Avoid applying with relative humidity greater than 65% or WME humidity exceeding 20%. Do not apply in direct sunlight. After applying, protect surfaces from rain for at least 48 hours.

Climatic conditions different from those indicated will have a negative influence on the correct drying time of the product compromising performance and the aesthetic appearance.

The product reaches the best the technical and performance characteristics after approximately 10 days of application. If during this period, the product is rained upon, raindrop fouling can occur. This phenomenon is however temporary and does not affect in any way the overall performance of the product. Sometimes these formations disappear automatically with subsequent rainfalls. In any case, power washing will remove them.

The colours shown in the samples are indicative. We recommend a test on site in order to verify the final colour tone.

In case where several coats are required, wait at least 12 hours between coats or verify that the film is completely dry.

The solidity of an exterior colour, as well as the chemical nature of the pigments used, depend on many variables. The type of colour and the perception of its variation over time by the human eye, the environmental to which the product is exposed, the type of product to which the pigments are added, how it is applied, the thickness, the type of underlying





substrate.

Choosing a coloured product implies the acceptance of a colour tolerance of Delta E = 3 (CIELAB, D65, 8°, light diffusion, product applied in lab test).

Further product supplies with the same colour code may undergo slight variations in tone; therefore, we suggest ordering sufficient quantities to complete the job in a single solution. If a second order has to be made, always communicate the lot number of the previous order. The diluted product must be stored in the original container, tightly closed, not exposed to direct sunlight or heat source, and used within 5 days of diluting.

PRODUCT DATA

Appearance	liquid
Colour	white and coloured
Max. temperature for storage	+ 40°C
Min. temperature for storage	+ 5°C

APPLICATION DATA

Min. temperature for application	+ 5°C
Max. temperature for application	+ 35°C
Relative humidity of environment	≤ 80%
Substrate humidity WME	≤ 20%
Surface drying time	1-4 hours depending on conditions when applying
Tool cleaning	soap and water immediately after use

DILUTION

	Roller		Brush		Airless		Air	
Coat	1°	2°	1°	2°	1°	2°	1°	2°
Water dilution	15%	10%	20%	15%	15%	10%	20%	15%
Nozzle diameter	***		***		0,4-0,5 mm		1,5-2,0 mm	
Nozzle pressure	***		***		120-160 atm		2,5-4,0 atm	

PERFORMANCE DATA

Specific weight	1400 ± 20 g/l	UNI 8910
Dry residue mass	59 ± 2%	
Dry residue volume	42 ± 2%	
pH at packaging	9.0 ± 0,5	
Brilliance	very matt L < 5 gloss GU 85°	EN ISO 2813
Viscosity	9500 ± 1500 cps	ASTM D 2196
Dry film thickness	E ₁ ≤ 50 µm	EN 1062-1
Grain size	S ₁ Fine <100 µm	EN 1062-1
Liquid water permeability	low W < 0.1 kg/m ² h ^{0.5}	EN 1062-3
CO ₂ permeability	C ₁ 2.07 g/m ² 24h S _d CO ₂ > 50 m	EN 1062-6
Resistance to static crazing	A ₁	EN 1062-7
Resistance to dynamic crazing	< B ₁	EN 1062-7
Film forming at low temperatures	good a + 5°C	UNI 10793
Surface resistance to temperature changes	C ₅ no defect after 15 cycles	UNI 9429

VOC

Category	One-pack performance coatings (WB/i)
VOC limits category	140 g/l (2010)
Maximum VOC product content	70 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.



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