

Technical qualities

BIOCOMPACT by OIKOS is a thick, exterior coating with a compact, troweled finish, formulated in three grain sizes of 1, 1,2 and 1,5 mm, respectively called BIOCOMPACT 10, BIOCOMPACT 12 and BIOCOMPACT 15. The product is composed of special acrylic siloxanic silanized resins with silanic adhesion activators in water dispersion that give the product an exceptional resistance to atmospheric agents, to acid pollutants, to U.V. rays and to frost-thaw cycles. The product offers an excellent adhesion on any kind of surface and is suitable also for highly vapour permeable surfaces. Grains of marble and sand in selected grain sizes and titanium dioxide based fillers give the product great coverage and an elegant aesthetic effect. BIOCOMPACT has remarkable in-filling properties, great coverage and excellent water repellence and maintains a good level of vapour permeability of the support. Further to this the product prevents the formation of moulds and algae: it is therefore indicated for the protection and decoration of all types of wall surface, as well as for use on thermal insulation facade systems. For a higher prevention against moulds and algae formation it is advisable to add to the product the specific sanitizing additive STERYLPLUS. The product has a low odour level, is non inflammable and is friendly to both humans and the environment. Compliant with CAM (Minimum Environmental Criteria), III level certification. EPD.

EPD[®]



Ideal use

Exterior walls.

Surface preparation

Surfaces must be dry, even and thoroughly mature. New plaster should be left to mature for at least 30 days to allow for the complete carbonation of the support. Brush the surface in order to remove any loose or flaking material: in the case of restoration works, water infiltrations or leakages must be repaired before application. Apply the indicated primer BLANKOR by OIKOS. Wait 6 ÷ 8 hours before applying the finish.

Application method

Using an inox steel trowel, apply an even coat of BIOCOMPACT with the thickness of the coat dictated by the size of the grain of the product. Following this, using the same tool, proceed to smooth over the surface in circular motions.

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,

The product

Composizione	Acrylic siloxanic silanized resins in water dispersion, titanium dioxide based fillers, marble grains, selected sands, additives to aid application and the formation of the surface film.
Specific weight	1,75 kg/l +/- 3% (white)
Granulometry	10 Max= 1 mm, 12 Max= 1,2 mm, 15 Max= 1,5 mm
pH	8,5 ÷ 9
Viscosity	55.000 +/-5% CPS Brookfield (RVT 20 rounds/min. at 25°C)
Storage temperature	+2°C ÷ +36°C. Keep from freezing
Water absorption	Class W ₃ (Low Permeability), 0,080 kg/(m ² h _{0,5}) (EN 1062-3:2001)
Permeability to water vapour	Class V ₂ (Medium Permeability), S _d =0,63 m (EN ISO 7783-2:2001)
Measurement of bond strength by pull off	f _h = 0,8 MPA, f _h > 0,3 MPA (EN 1542:2000)
Durability	f _h =0,9 MPA, f _h > 0,3 MPA (EN 13687-3:2003)
Thermal conductivity	λ 10, dry= 0,93 W/mK (P=90%) (EN 1745:2005)
Reaction to fire	White: Euroclass B-s1,d0 (EN 13501-1:2019) Coloured: Euroclass C-s1,d0 (EN 13501-1:2019)
CE Labelling	Conforms to the Norm (EN 15824:2009)
CAM (Minimum Environmental Criteria)	III level certification. EPD
Emission limits of Volatile Organic Compounds (VOC), according to Directive 2004/42/CE	Classification: A/c ; VOC: 30 g/l (max); Phase II limits (from 1.1.2010): 40 g/l
Colours	White and shades of the colour chart
Packaging	Litres 4 - 14

Application

Dilution	Ready to use
Yield	10: 0,9 ÷ 1,1 sqm/l - 12: 0,8 ÷ 1 sqm/l, 15: 0,6 ÷ 0,7 sqm/l
Application tools	Inox steel trowel
Primer	BLANKOR by OIKOS
Application temperature	+5°C ÷ +36°C (with relative humidity not exceeding a 80%)
Drying time until touch dry	3 ÷ 5 h (temperature = 20°C with relative humidity at 75%)
Total drying time	24 h (temperature = 20°C with relative humidity at 75%)
Tools cleaning	Water

residue, eventual spilt material should be cleaned up using absorbent inert material such as sand, soil 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.

Specifications

Surfaces must be thoroughly dry and mature, new plaster should be left to mature for at least 30 days to allow for the complete carbonation of the support. Brush the surface in order to remove any loose or flaking material; In the case of restoration works, water infiltrations or leakages must be repaired before application. Apply the indicated primer BLANKOR by OIKOS. Wait 6 ÷ 8 hours before applying a finish product. Once the surface is ready, using an inox steel trowel, apply an even layer of a thick coating with compact, troweled finish based on special acrylic siloxanic silanized resins compliant with CAM (Minimum Environmental Criteria), with III level certification

EPD, water absorption in Class W₃, vapour permeability in Class V₂ such as BIOCOMPACT by OIKOS, with the thickness given by the size of the grain. All should be carried in accordance with the norms of application, with a cost of per m² including material and labour.

NOTE

The company Oikos Spa 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.