

Technical qualities

BIOCOMPACT ELASTIC by OIKOS is a continuous elastic coating with a compact, troweled finish, formulated in three grain sizes of 1, 1,2 and 1,5 mm, respectively called BIOCOMPACT ELASTIC 10, BIOCOMPACT ELASTIC 12 and BIOCOMPACT ELASTIC 15. The product is composed of special acrylic elastomeric silanized resins with siloxanic modification 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. 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 ELASTIC has remarkable in-filling properties, great coverage and excellent water repellence and maintains a good level of vapour permeability of the support. Its special elasticity is obtained thanks to the use of special acrylic elastomeric resins and to the addition of synthetic fibres which make BIOCOMPACT ELASTIC particularly flexible and suitable for use for restoration and protection of wall surfaces that have been damaged by exfoliation and cracking. Further to this the product prevents the formation of mould and algae. For greater protection against mould and algae it is advisable to add the special sanitising additive STERYLPLUS to the product. 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 even and without imperfections, dry 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 or remove paint from it 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 ELASTIC 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, 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 product

Composizione	Acrylic elastomeric 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 +/- 8% (white)
Granulometry	10 Max= 1 mm, 12 Max= 1,2 mm 15 Max= 1,5 mm
pH	8 ÷ 9
Viscosity	36.000 +/-10% 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), 0,024 kg/(m ² h _{0,5}) (EN 1062-3:2001)
Permeability to water vapour	Class V ₂ (Medium Permeability), Sd=1,25 m (EN ISO 7783-2:2001)
Measurement of bond strength by pull off	0,8 MPA (min. fh > 0,3 MPA) (EN 1542:2000)
Durability	fh > 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)
Crack Bridging Ability (CBA)	Class A3 (HIGHER THAN 500 MICRON), UNI EN 1062-7:2005
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: 20 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 mq/l - 12: 0,8 ÷ 1 mq/l, 15: 0,6 ÷ 0,7 mq/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

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 or remove paint from it 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 an elastic thick coating with compact troweled finish composed of 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 ELASTIC 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.