

Technical Qualities

DUAFLEX by OIKOS is a special, flexible finish coat, good for covering uneven surfaces, giving a matt rough effect suitable for both exterior and interior surfaces. The fillers used, with a selected grain size (0,3 or 0,7 mm), enable the product to cover uneven surfaces making it possible to even out small imperfections and irregularities. DUAFLEX is composed of acryl-siloxanic resins, silanised, acrylic and elastomeric resins in water dispersion that make it extremely flexible with excellent adhesion even on difficult surfaces (tiles, stone, smooth cement). For surfaces in good conditions there is no need to apply base coats: with two coats of DUAFLEX it is possible to decorate the entire façade thus saving time and money. DUAFLEX is water repellent, light resistant, resistant to the elements and pollutants as well as preventing the formation of mould and algae. The flexibility of the product remains stable over time, even if exposed to U.V light, or to frost-thaw cycles. DUAFLEX has been EC labelled for Systems for the protection of concrete surfaces as per EN 1504-2:2005 as much as it ensures protection against carbonation to surfaces made of reinforced concrete. It is recommended for use in the renovation of historical centres, villas, residential developments and industrial premises and in general for the protection and restoration of all wall surfaces and thermal insulation systems when it is necessary to even the surface or renovated plaster work, thus guaranteeing very good adhesion and protection against carbonation. The product has low odour, is non inflammable and is friendly to humans and the environment. Compliant with CAM (Minimum Environmental Criteria), III level certification. EPD. Product certified in class "A+" under emissions classifications (Decree of the Official French Gazzette dated 19th April 2011).



Ideal Use

Exterior and Interior walls.

Surface Preparation

Remove any deposits of dust, smog or other similar elements by brushing or washing. Remove any loose or flaking materials. Only in case of powdering, badly adhering, detaching surfaces apply a coat of the special sealer NEOKRYLL by Oikos. Wait 4 ÷ 6 hours until dry. On walls in good conditions there is no need for primers or sealers. For shades belonging to the Design colour collection or with reduced covering capability it is necessary to follow the instructions given in the Exterior colour fan.

Application Method

DUAFLEX 03: apply 2 coats of product diluted 10% with drinkable water waiting 4-6 hours between coats. The product can be applied by brush, crossing the brush strokes, or by roller for exterior use, paying attention to evenly distribute the product over the surface. Avoid leaving roller marks. DUAFLEX 07: apply 2 coats of product with an interval of 4-6 hours. The recommended application is by brush diluting the product 10% with drinkable water, crossing the brush strokes.

The application by roller for exterior use is possible but attention shall be paid to evenly distribute the product over the surface avoiding to leave roller marks on it. Dilute the product 10% with drinkable water for the first coat, and 20% for the second one. We do recommend that you make a preliminary test before proceeding with this method of application. CLOUD EFFECT: it is possible to accomplish a cloudy decorative effect by applying a first coat of DUAFLEX 07 diluted 20% with drinkable water and then, 4-6 hours later, a second coat of DUAFLEX 03 diluted 10% with drinkable water. The application of both coats shall be made by brush, crossing the brush strokes.



The product

Composition	Acryl-siloxanic resins, silanised acrylic resins and acrylic elastomers in water dispersion, titanium dioxide based fillers and additives to facilitate application and the formation of the surface film.
Specific weight	1,50-1,60 kg/l (white)
Grain size	03 Max = 0,3 mm 07 Max=0,7 mm
pH	8 ÷ 9
Viscosity	17.000-22.000 CPS Brookfield (RVT 20 revs/min. at 25°C)
Storage temperature	+2°C ÷ +36°C. Keep from freezing
Water absorption	W3 (low permeability to liquid water) (UNI EN 1062-3:2008)
Permeability to water vapour	V2 (medium permeability) (UNI EN ISO 7783-2:2012)
Crack Bridging Ability (CBA):	Classe A2 (UNI EN 1062-7:2005)
Reaction to fire	Euroclass B-s1,d0 (EN 13501-1:2019)
EC labelling for Systems for the protection of concrete surfaces as per EN 1504-2:2005 As per EN 1504-2:2005 requirements:	
Permeability to carbon dioxide	SdCO2>50 m, complies (UNI EN ISO 1062-6:2003)
Measurement of bond strength by pull off	fh > 0,8 MPa complies (UNI EN 1542:2000)
Water absorption	w<0,1 kg/m2h0,5 complies
Permeability to water vapour	Sd<5 m, class I
CAM (Minimum Environmental Criteria)	III level certification. EPD
Emissions Class	A+ (Decree of the Official French Gazzette dated 19th April 2011)
Volatile Organic Compounds (VOC)	VOC:8 g/l (ISO 11890-2) (according to Directive 2004/42/CE) Classification: A/c (classification limit A/c: 40 g/
Colours	White + shades from the ECS colour collection
Packaging	4-14 l

Application

Dilution	03: by brush, by roller, max 10% with drinkable water 07: by brush max 10%, by roller 1st coat 10%, 2nd coat 20% Cloudy effect: 07 max 20%, 2nd coat 03 max 10%
Yield	03: 1,8 ÷ 2,2 mq/l according to the absorption of the surface 07: 1,5 ÷ 2 mq/l according to the absorption of the surface Cloudy effect: 07 2,5-3,5 mq/l, 03 3-4 mq/l
Application tools	Brush, Roller or Spray gun (by suitable equipment)
Sealer	Neokryll by OIKOS
Application temperature	+5°C ÷ +36°C (with relative humidity not exceeding 80%)
Drying time until touch dry	2 ÷ 3 h (temperature = 20°C with relative humidity at 75%)
Drying time until fully dry	24 h (temperature = 20°C with relative humidity at 75%)
Tools cleaning	Water

Finishes and Protection

In order to give the surface a wash effect, once the surface is dry, it is possible to apply a coat of VELDECOR by Oikos finishing it using a brush, sponge or glove by Oikos.

Specifications

Clean the surface to be painted by removing any loose or flaking material. New surfaces should be thoroughly dry and mature. In case of very crumbly, absorbing or powdering surfaces apply a coat of a sealer such as NEOKRYLL by OIKOS. Once the surface is ready, apply two coats of a flexible filling paint based on acryl-siloxanic and elastomeric resins, having EC labelling for Systems for the protection of concrete surfaces as per EN 1504-2:2005, compliant with CAM (Minimum Environmental Criteria), III level certification. EPD such as DUAFLEX by OIKOS. All should be carried in accordance with the norms of application, with a cost of per m² including material and labour.

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 regional and national regulations in force at that time. Transportation must be carried out in accordance with international agreements.

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.

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