



Powder paint containing principle "TX Active® by Italcementi" for interior and exterior

there's something
new in the air...

edilcol
PHOTOCATALYTIC

TECHNICAL DATA SHEET



PF 10

MINERAL-BASED PHOTOCATALYTIC PAINT



PRODUCT

Mineral-based photocatalytic powder paint with the principle TX Active® by Italcementi.

CHARACTERISTICS

Immediately activated by the simple presence of natural or artificial light (UV), it has high depolluting (NO_x, SO_x, etc), bacterio-static (virus and bacteria), sanitizing (molds and fungi) and deodorizing (smoke and unpleasant odors) properties.

Highly durable, versatile and easy to use, it improves the aesthetic maintenance of the treated surfaces preventing dirt from sticking (self-cleaning effect) and increasing the resistance to aging.

Environmentally friendly and safe, thanks to its particular nature and formulation, it is solvent-free and free from Volatile Organic Compounds (VOCs).

APPLICATION FIELDS

Decorative and protective finishing of cement based and fibrocement based plasters.

Outdoor and indoor, civil houses, public buildings, industrial buildings, tunnel, etc.

Recommended for the aesthetic maintenance of surfaces, it is ideal for the improvement of the air quality and the sanitization of indoor environments.

CONSUMPTION

Approximately 100-300 g/sqm according to thickness and type of surface.

PACKAGING

5 kg buckets on 240 kg pallet;

10 kg buckets on 240 kg pallet;

15 kg bags on 450 kg pallet.

STORAGE

12 months in its original packaging in a dry place.

ITEM SPECIFICATIONS

Fine-grained mineral-based photocatalytic powder paint with the principle TX Active® such as PF 10 by Edilcol, having de-polluting, self-cleaning, bacterio-static, sanitizing and deodorizing properties.

The product must be mixed only with water for manual applications or for spray, prior use a suitable fixative, in two coats, for a maximum of 0.5 mm thickness, in the external or internal environment.

In order to maintain the photocatalytic property, do not apply on the surface of the painting, both fresh and hardened, protective film products, of



AZIENDA CON SISTEMA
DI GESTIONE QUALITÀ
CERTIFICATO DA DNV GL
= ISO 9001 =



...new air.

PREPARATION

The application surface must be planar, uniform, clean, without dust, grease and salts which may hinder the perfect adhesion to the substrate. On concrete, fibrocement or irregular cement based plasters, apply the fixative RM 50 and wait for its drying prior to the application (within 1 hour approximately).

Mix the contents of the bucket with about the 60% - 70% of clean water and intensively mixed with a suitable tool, until obtaining a homogeneous, lump-free mixture. Let rest for 5 minutes and mix again prior to the application.

APPLICATION

Apply two coats of product by hand, using a roller or a brush, on a suitably prepared surface, up to a maximum thickness of 0,5 mm. After applying the first coat wait about 2-4 hours until the paint appears dry to the touch, then proceed with the second coat. The product can be also applied by spraying, using a suitable airless sprayer or a similar equipment. Once mixed, the product should be used within 1-2 hours.

RECOMMENDATIONS

Mix the necessary quantity of powder always with the same quantity of clean water and of the color that may be provided with no other additions. Do not use organic dyes. Avoid direct application to gypsum-based materials. Do not apply on ice or frozen substrates, with temperatures below 5°C or above 30°C, in case of rain or wind or in full sunlight. In case of hot weather and outdoor application, it is recommended to perform the work in the early hours of the morning, interrupting it during the hottest hours. It is however suggested a protection with sheetings for the first 24 hours. It is advisable to work over the entire surfaces without interruptions, especially in case of high temperatures or pigmented colored products, avoiding to suspend and resume work on the same façade if interruptions exceed 30 minutes. Avoid to dispose of rinse water in the bucket and of used tools in the domestic or condominium pipelines.

Although the details contained in this product report correspond to the best of our current experience, all the above information must be confirmed after practical applications. Anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of product. The values given in the technical data derived from tests conducted in laboratory, in a controlled environment, so they may be greatly modified by the conditions of installation.

TECHNICAL DATA

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Appearance:	premixed fine powder	
Colour:	white or coloured	
Particle size:	≤ 100 µm - class S1	UNI 1062-1
Temperature of application:	+ 5°C /+ 30°C	
Mixing water:	≈ 60% - 70% depending on the application mode (roller, brush or airless)	
Pot life:	≈ 1 hour a 20°C	
Bulk density of the fresh mix:	≈ 1,6 Kg/l	EN 1015-6
Application:	By roller, brush or airless sprayer	
Waiting time for second coat:	≈ 2-4 hours	
Maximum thickness to apply:	= 0,5 mm	
Hardening time:	28 days	
Covering power:	= 0,98	ISO 6504-1
Content of Volatile Organic Compounds and Semivolatile Organic Compounds (VOCs and SVOCs):	< 0,1 %	UNI-EN ISO 11890-2
Determining VOC in the environmental chamber (IAQ):	A +	ISO 16000-9
Liquid water permeability:	< 0,5 kg/sqm h ^{0,5}	UNI-EN 1062-3
Water vapour permeability- transmission coefficient:	> 700 g/sqm day	UNI-EN ISO 7783
Alkali resistance for the application of cement based surfaces:	excellent	UNI 10795 app.A
Resistance to aging:	excellent	UNI EN ISO 4628-1
Photocatalytic activity (determination of the degradation of nitrogen oxides in the air by inorganic photocatalytic materials activity) - Recirculation test method:	> 90 %	Standard project UNI 04-2010
Photocatalytic activity (determination of the degradation of nitrogen oxides in the air by inorganic photocatalytic material activity) - Continuous flow test method:	> 30 %	UNI 11247-2010