

PhotoSound 3c

activa

updated 05/2019

Photocatalytic coating for asphalt pavements

Photocatalytic cement coating

for asphalt pavements

PHOTOSOUND uses light energy to destroy airborne pollutants. Thus:

- ELIMINATES contamination
- Prevent the growth of fungi and bacteria
- Eliminate odours IN AIR
- Enable families to live in a healthy environment
- Reduces average city temperature thanks to its light colours and porosity

PHOTOSOUND has Photocatalytic elements regularly distributed on the surface, improving its air cleaning power. Presented in different colours, on request, is a magnificent finish for renewal of all kind of asphalt pavements as streets, sidewalks, lanes, bicycle lanes, pedestrian areas, kindergartens, gardens or parks, improving air quality and temperature

PHOTOSOUND is used in city centres, in air polluted areas and in buildings and equipments sensitive to people's health:

- Streets
- Promenade areas
- Bike lanes
- Parks and gardens
- Public areas
- Sport areas

-PHOTOCATALYSIS

Photocatalysis is a technology that works under the same principles than Photovoltaic Panels (Solar cells). It uses light energy, in the range between visible and UVA, to destroy the pollutants produced by car exhausts pipes, industries, kitchens and heating, that affect human health and dirt

- It is **MAINTENANCE FREE**, and its effect is **PERMANENT**.
- It is a **CLEAN TECHNOLOGY**

- It is not only a **SURFACE CLEANER**, it is an **AIR DEPOLLUTER**
- **DESTROYS** the **DIRT** and reduces the growth of **MOULDS AND BACTERIA**

It is a **NATURAL** effect, and reproduces the activity of the sun and plants as depollutant

-THE RESULTS

Tests based on ISO standard 22197, highlight an exceptional pollution destruction capacity of our top component: more than 40 % NOx destruction in an air flow passing over a 5 x 10 cm sample

**Healthy
Environment
Low Pollution
Fresher cities**

-APPLICATION

1.-Flexible and resistant cold surface

PHOTOSOUND doesn't require water addition. Powder is mixed with the resin at a ratio of 25 kg of powder and 4 kg of resin. . It is mixed using electrical mixer, at low speed, until the mix is homogeneous. On absorbent surfaces, it is required to moisten it before application.

PHOTOSOUND is applied and compacted on clean, smooth and free from efflorescences supports that may be consistent enough to support the traffic. It is strongly recommended to prepare the surfaces with **3C PRIMER** Avoid application under hot temperatures or strong sun. Allow 48 hrs for a correct curing at 20 °C.



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PHOTOSOUND needs moisture for proper curing. If the surfaces dry too fast or the weather is hot and dry, it is recommended to avoid too fast drying after application

Although the product is design to have very good adherence to the majority of supports, it is advised to test adherence before application. It is advised to respect all kind of dilatation joints existing in the support layer



PHOTOSOUND can have a rough or smooth surface, depending on the application tools and procedure

2.-Photocatalytic high performance finish

Once the flexible and resistant cold surface has been applied, before the curing, when it is still fresh, the third component, **PHOTOACTIVA S** is sprayed on top, at a ratio of 100-200 g/m², providing the pavement surface the photocatalytic properties that will convert the 3 components system into a powerful environmental and health tool.

PHOTOACTIVA S will help the correct curing of the pavement

Photocatalysis is a superficial activity. Only illuminated particles are active.

TECHNICAL DETAILS

3 Components photocatalytic cement /acrylic pavement for urban environmental improvement.

- Appearance:
 - Powder admixture (*)
 - Resin dispersion
 - Photocatalytic emulsion
- Mix density 1.8 kg / l
- Pigmented on request. 56 colours available
- Yield:
 - Mix 1.8 – 2 Kg/m² mm thickness
 - PhotoActivas S 0.1-0.2 Kg/m²
- Mix application time 40-60 min
- Dry touch 5-60hrs 25 °C
- Recommended 2-3 mm thickness
- Curing time 48 hrs (20°C)
- Adherence EN 1015/12 1.8 N/mm²
- Wear resistance EN 13813 <20.0 mm
- Freezing/thawing 0.16 kg/cm²
- Application temp. between 5 ° C and 30 °C
- Do not apply if rain is foreseen in the next 24 hrs
- Store in dry areas.
- Shelf life 12 months for the admixture
- Admixture: 25 Kg bags
- Resin: 4 kg or 25 Kg Containers
- PhotoActiva S : 10 l canisters

(*)It Contains Recycled Material: we care for the environment

PhotoSound : Photocatalytic finishing and repair for asphalt pavements, having enhanced photocatalytic superficial activity in the UVA-visible range, based on EPS Technology, applied on a resistant and flexible acrylic mortar. The combination results in a reduction of air pollution and average temperature, depending on surface colour

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All data given in our technical information and recommendations are based on our experience, technical knowledge and practice, under established job and test conditions. Customer must check consumptions and suitability under his particular job conditions, by previously testing it. Activa can provide Technical assessment if required. We guarantee the quality in case of production defects of our products, excluding further claims. Our responsibility is limited to the value of the goods supplied. That TDS is valid until next edition is issued



Active Walls .S.L
Daoiz I Velarde 22-26 L1, 08980 Sant Feliu Llob.
Barcelona
comercial @activacolors.com