3 C Photocatalytic Epoxy Pavement *activa*

updated 08/2014

Photocatalytic epoxy finish for indoor pavements submitted to moderate abrasion

3C PHOTOCATALYTIC EPOXY PAVEMENT 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

3C PHOTOCATALYTIC EPOXY PAVEMENT 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 pavements as streets, sidewalks, lanes, bicycle lanes, pedestrian areas, kindergartens, gardens or parks, improving air quality and temperature

3C PHOTOCATALYTIC EPOXY PAVEMENT is used in air polluted areas as anti-dust coating to protect indoor flooring. It is a top coat and finish for many types of self levelling pavements

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

- Car parks
- Warehouses
- Industrial or commercial equipments

-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**
- **SAVES MONEY, as surfaces remain clean during years**
- **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: 2620 µmol NOx/m^2,

-APPLICATION

1.-Epoxy coating

3C PHOTOCATALYTIC EPOXY PAVEMENT is applied by brush, rollers or spray gun, on dry, sound, clean and completely hardened surfaces. Surfaces must be free from oil, grease, or loose materials that can affect adherence. If surfaces are too smooth, add roughness by sanding, milling or sandblasting.

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Component A and B are thoroughly mixed, at a ratio 4:1 in weight. On new surfaces it is recommended to apply a first coat diluting the mix with 15-20 % with solvent, as primer.
On areas where adherence is not compromised, it is recommended to apply two coats adding a maximum of 5 % solvent to adjust viscosity.
Always check the adherence previously to decide the use of the product.
Avoid application under hot temperatures or strong sun. Allow 24 hrs for a correct curing at 20 ºC before pedestrian use and 5-7 days before wheeled transit

3C PHOTOCATALYTIC EPOXY PAVEMENT

mustn't be applied if temperature is below 10ºC or RRHH is above 85 %
Although the product is design to have very good adherence to the majority of supports, it is advised to test adherence before application.

2.-Phtocatalytic high performance finish

Once the final layer of the Epoxy coating has been applied, before the total curing , (4-6 hrs), the third component, PHOTOACTIVA S is sprayed on top, at a ratio of 100 g/m^2, providing the pavement surface the photocatalytic properties that will convert the 3 components system into a powerful environmental and health tool.

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

-TECHNICAL DETAILS

3 Components photocatalytic epoxy coating for indoor pavements, used for environmental improvement.

- Appearance:
  - Component A ***ARTIPOX AS A Component***
  - Component B ***ARTIPOX AS B component***
    - Solvent ***DISOLPOX***
  - Photocatalytic emulsion ***PhotoActiva S***
- Mix density 1.5 kg / l (comp A)
- RAL colours on request
- Yield:
  - Epoxy coating: 8-10 m2/kg coat
  - PhotoActivas S 0.1 Kg/m^2
- Pot life of the admixture 6 hrs
- Dry touch 6 hrs 25 ºC
- Time between coats 12 hrs
- Thickness 70-80 microns in 2 layers
- Curing time 24 hrs (20ºC)
- Final curing time 5-7 days (for wheeled traffic)
- Application temp. between 10 º C and 30 ºC
- Store in dry areas.
- Shelf life 2 years
- Packaging Artipox AS A…. 16 Kg cans
- Packaging A Artipox AS B… 4 Kg cans
- Packaging PhotoActiva S …..10 lit canisters

3C Photocatalytic Epoxy Pavement: ***Photocatalytic epoxy finish forindoor pavements, having enhanced photocatalytical 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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