

Photocatalytic blend for concrete flooring

Admixture based on cement, quartz, pigments, fillers and additives. Its special formulation provides excellent mechanical properties and a very high activity in the pollution removal.

The special particles distribution, as well as the use of the latest technology, allows the optimal superficial distribution of the photocatalytic elements, increasing their effectiveness when activated by light.

QUARTZ FC is an ideal solution for concrete floors finishing, creating an abrasion resistant surface, stable to temperature changes, and waterproof. The surface will use the light energy to destroy air pollutants by red-ox mechanisms. Thus:

- ELIMINATES THE AIR POLLUTION PRODUCED BY CARS, INDUSTRIES, AND OTHER HUMAN ACTIVITIES
- AVOIDS THE FLOORS TO BECOME DIRTY
- PREVENTS THE GROWTH OF FUNGI AND BACTERIA
- ELIMINATES ODORS IN THE AIR
- IMPROVES PEOPLE'S QUALITY OF LIFE
- HELPS TO RECOVER & IMPROVE THE POLLUTED ENVIRONMENTS

QUARTZ PC is used for the realization of concrete pavements, either indoor or outdoor. Ends up with the air pollution in buildings, industries or sensitive cities areas where pollution is affecting people's health.

- Bike lane, Car parks, and streets
- Malls
- Warehouses and factories
- Pedestrian Areas and Sidewalks
- Gardens and Yards
- Schools and Nurseries
- Hospitals

Photocatalysis requires light energy to be activated. Natural light, fluorescent, or incandescent bulbs are, in that order, suitable to activate the surfaces

- 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
- Is a NATURAL effect, and reproduces the activity of the sun and plants as depollutant.

-APPLICATION

QUARTZ FC is used as a powder, applied onto the fresh concrete surface in three layers, each 1/3 of the dosage. As soon as the first layer is distributed and wetted on the concrete surface, the second layer is applied transversely to the first, and after it, the third one is spread in diagonal, then distributing and compacting them by mechanical means. It is necessary to maintain the humidity of the concrete surface during one week to ensure proper curing and before the cutting of the joints.



**Unpolluted Air
&
Healthy Environments**

- TECHNICAL DETAILS

- Solid, Inorganic. Non flammable
- Dry Density 1.8 kg / l
- Colour on request
- Packed in bags of 25 Kgm
- Hardening when mixed with water (25°C,60% RH) 60 min
- Yield 3-4 Kg/m²
- Adherence to 28 days 2.5 Mpa
- Application temperature between 5°C to 30°C
- Store in a dry and sheltered place

Quartz FC. Photocatalytic admixture for concrete flooring, containing activity enhancers in the UVA-visible rang, based on EPS technology, to produce high performance pavements with increased mechanical and photocatalytic properties.

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