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1. ABOUT

SMOG-ABSORB mixture is formed by nano dimensional photocatalytic titanium dioxide, designed to ensure an effective anti-smog action even in situations of reduced solar radiation, and silicic inorganic resins. The photocatalytic particles are dispersed in the resin that keeps them in suspension, anchored to the treated surface. The photocatalytic process occurs with any type of light, sunlight or artificial, with a wavelength $\lambda \leq 388$ nm.

2. APPLICATION

- SMOG-ABOSRB is laid through a spraying machine and the amount of the laid product is equal to about 45-55 g/m².
- The surface to be treated must be previously cleaned, in order to ensure the perfect adhesion of the mixture.
- The product can be laid both on horizontal surfaces (e.g.: road paving) and on the vertical ones (e.g.: walls of galleries and buildings).
- SMOG-ABOSRB can be applied both on surfaces in asphalt concrete (bitumen and aggregates) and on concrete surfaces (cement and aggregates).
- For an asphalt concrete application, the effectiveness in time is better guaranteed for eco-porous/half-open wearing layers with a percentage of voids equal to 8-12%.
- Road can be open to traffic after about +/-1 hour from application of the surface treatment, warmer temperature speed up drying process.

3. EFFECTIVENESS

The effect of photocatalytic mixture can be verified by laboratory tests that help determine the effectiveness of the product before laying, to be sure of its compliance. These laboratory tests are carried out in a special reactor (climatic chamber) according to UNI EN 11247.

- SMOG-ABOSRB has a NOX reduction of $\geq 20\%$.
- Allows to reduce the concentration of CO, NO_x, SO_x, COV
- Reduces surface glare and reflectivity
- Lightens the surface color
- Does not modify the draining power of the treated surface
- Not flammable
- Self-cleaning, that's to say that dirt and residue doesn't stick to the treated surface

4. USER MODE

THE PRODUCT ALWAYS NEEDS TO BE HOMOGENIZED BEFORE THE USE

5. DOSAGE

1.07-1.3 lb/ft² of product depending on the type of surface treated

6. COMPOSITION

Mixture of nano dimensional photocatalytic titanium dioxide and inorganic silicone resins.

7. PHYSICAL PROPERTIES

Aspect under agitation	white liquid
Apparent density at 80°F	68.7 ÷ 71.8 lb/ft ³
Freezing point	32°F



8. PACKAGE

In small plastic drums of 65 lbs (30 kg).

9. STORAGE

Sheltered from weather conditions. If kept in stock for long periods keep away from UV rays. If kept in its original package and preserved as mentioned above, the product has a shelf life of approximately 3 months.

10. SAFETY PRECAUTIONS

Refer to the product's MSDS.

