

## HOMOGENEOUS SUSPENSION FOR ZEOLITIC SUSPENSION

### Technological advantages

- ⌚ Enhanced decontamination capabilities
- ⌚ High decontaminant concentration
- ⌚ Sprayable as a paint
- ⌚ Well suited to aluminum based materials
- ⌚ Lower polymerization temperature
- ⌚ Drying process for temperatures < 100°C
- ⌚ Paint coating thickness between 10 and 120µm



Zeolite crystals

### Invention synthesis

The invention presents a homogeneous suspension for a zeolitic (porous crystalline structure based on aluminosilicate) paint or coating suited to molecular decontamination.

In orbit, satellite parts undergo a molecular degassing that may contaminate sensors and control surfaces. Organized porous micro-structures present in zeolite allows for the contaminant adsorption. Traditional use of zeolites (powders or pills) is not suited with industrial processes.

A suspension made, on the first hand of a dry mass of zeolite (highly concentrated) with an organic and inorganic bounding compound and a catalyst (titanium), and on the second hand of a thinner (xylene or water). The compound may also have black pigments for better thermo-optical absorption.

### Potential applications

- Applications in the space decontamination domain, in the public domain (such as public or commercial buildings).

### Commercial benefits

- Decontamination system more effective than present systems, easy to apply and compatible with a large type of surfaces.
- Well suited to the space domain.
- Can be used for public or commercial buildings.

*Patented invention - under license.*