

ABSTRACT

DRY CONSTRUCTION COMPOSITION WHICH CAN BE WET-SPRAYED BY MEANS OF SCREW PUMP AND COMPRISING A BINDER AND A BIO-BASED FILLER – PREPARATION AND USES OF SUCH A COMPOSITION

The invention relates to a dry construction composition, easily wet-sprayed by means of a screw pump, forming an insulating ($\lambda < 0.1 \text{ W}\cdot\text{m}^{-1}\cdot\text{K}^{-1}$) and mechanically resistant material after hardening, in a durable manner.

This composition comprises:

-A- at least one binder which itself comprises:

- -A1- at least one primary binder comprising lime and/or at least one source of alumina and/or at least one source of calcium sulfate, preferably at least one source of alumina;
- -A2- at least one water retention agent;
- -A3- preferably at least one surfactant;

-B- at least one plant-based bio-based filler based on sunflower stalk and/or corn stalk and/or rape stalk, having a Bulk Density (BD) in kg/m^3 that is less than 110, preferably comprised between 10 and 80;

the ratio of B/A (liters/kg) being between 2 and 9;

this composition being intended for mixing with water in a ratio of water/binder -A- that is greater than or equal to 0.8.

The invention also relates to the wet composition, its preparation, the binder -A- by itself, as well as to a method for application by spraying onto a horizontal or vertical substrate or by molding.