allow the ecological use and consumption of plastic waste. The result of this effort is the cement plastic mixture described in the present invention.

Summary

In an aspect of the present disclosure, there is provided a cement plastic mixture, **characterized in that** it comprises a basic mixture of 29% of weight to 43% of weight of plastic crumb, 56% of weight to 69% of weight of cement and 1.0% of weight to 2.0% of weight of superplasticizer adding up to a total of 100 % weight of the basic mixture.

The essence of the invention

The above-mentioned problem of cement mixtures is solved by the proposed cement plastic mixture according to the invention in dry or wet form. The essence of the technical solution lies in the fact that, depending on the composition, the dry mixture contains three basic components. It is a mixture that contains crushed plastics preferably which cannot be further recycled. It is possible to use plastics of all kinds with a fraction of 1 mm to 20 mm, or even a higher fraction, or chopped plastic strips, except for plastic pellets. May also be cement, preferably Portland gray or white with a strength of 32.5 MPa to 52.5 MPa.

Portland grey and Portland white represent historical names for a cement which may be used as a synonym for hydraulic binder.

Finally, it may be a superplasticizer, preferably a superplasticizer with a density of 10/40 (40%of superplasticizer). According to the present invention the superplasticizer may be based on or may comprise or may be made from melamine formaldehyde and or may fulfill the EN 934-2 2019+A1:2012 standard and/or may fulfill the EN 934-2 + A1 standard. This dry cement plastic mixture can be packaged e.g. into paper bags and at the point of use it preferably may only be mixed with water. Depending on the consumer's needs, additional components can be added to these three basic components, such as: silica sand preferably with a fraction of 0.3 mm to 2.0 mm and/or solidification accelerator, e.g. Betodur A5, thus a chloride free concrete and/or synthetic fibers, e.g. ARC 42/30 mm, namely alkali resistant (AR) Glass Fibers, which may be designed specifically for use in concrete and/or powdery paint, e.g. in the form of dry color pigment powder for concrete. In the case of a wet cement plastic mixture, which is mixed at the place of use or production, water may also be considered as an additional component.

The essence of the invention is represented by the composition of individual components of the cement plastic mixture. The cement plastic mixture in basic components comprises according to a preferred embodiment:

29% of weight to 43% of weight of plastic crumb,

56% of weight to 69% of weight of cement,

1.0% of weight to 2.0% of weight of superplasticizer adding up to 100 % and representing a basic mixture.