well represents an improvement over the prior art.

A further problem is that of providing 2-component systems based on the reactive resins of the invention, for use, for example, as trafficway marking or floor coating, which should be able to be used widely and to be formulated flexibly and have a relatively long shelf life.

One particular problem is that of providing a reactive resin which enables trafficway markings that are at least as long-lived as those of the prior art and which have good retroreflection properties, good day and night visibility, a high, stable whiteness and a good grip, even when the trafficway is wet, or long-lived floor coatings having good surface properties, cohesion and adhesion to the substrate.

Further problems not explicitly identified will become apparent from the overall context of the subsequent description, claims and examples.

Summary

In a first aspect, there is provided a (meth)acrylate-based reactive resin, characterized in that the reactive resin has the following ingredients: a) 0.5% to 30% by weight of crosslinker(s), b) 5% to 99.5% by weight of an ester of (meth)acrylic acid with an alcohol having a cyclic radical containing at least two oxygen atoms, c) 0% to 90% by weight of other (meth)acrylates and/or components copolymerizable with (meth)acrylates, d) 0% to 5% by weight of accelerator or initiator and optionally other auxiliaries.

In a second aspect, there is provided a cold plastic, characterized in that the cold plastic has the following components: 5% to 99% by weight of a reactive resin as defined herein, comprising at least 0.1% by weight of one or more accelerators or initiators d), 0.1% to 5% by weight of a mixture comprising one or more initiators or accelerators f), where component d) comprises an initiator and at the same time component f) comprises an accelerator, or component d) comprises an accelerator and component f) comprises an initiator, and initiators and accelerators are present

separately from one another before the cold plastic is produced.

In a third aspect, there is provided the use of a cold plastic as defined herein for producing trafficway markings, trafficway repair compositions, intumescent coatings or floor coatings.

In a fourth aspect, there is provided the use of a cold plastic as defined herein as casting resin, architectural preservative, coating material or laminating material.

Solution

The problems are solved by the provision of an innovative reactive resin, more specifically by provision of a (meth)acrylate-based reactive resin comprising monomers having cyclic radicals which contain at least 2 oxygen atoms.

The reactive resin of the invention comprises the following ingredients:

a) 0.5% to 30% by weight of crosslinker(s), preferably dimethacrylates,

b) 5% to 99.5%, preferably to 96%, by weight of an ester of (meth)acrylic acid with an alcohol having a cyclic radical containing at least two oxygen atoms,

c) 0%, preferably 3.5% to 90%, by weight of further (meth)acrylates and/or components copolymerizable with (meth)acrylates,

d) 0% to 5% by weight of either accelerator or initiator and