Claims

1. A formulation for 2-component intumescent coating, wherein the formulation after mixing of the 2-component system contains 30 to 50 wt% of a reactive resin preparable according to a process in which a monomer mixture comprising at least one acid-functional monomer is polymerized to a degree of polymerization of not more than 70%, after which the polymerization is discontinued, and in which the resultant polymer has a glass transition temperature of less than 23°C, 35 to 60 wt% of a blowing agent, 0.1 to 2.5 wt% of a peroxide and/or azo initiator, optionally up to 2 wt% of an accelerator, optionally 4.9 to 15 wt% of additives and 5 to 30 wt% of fillers.

2. The formulation according to Claim 1, wherein the formulation additionally contains pigments.

3. The formulation according to claim 1 or 2, wherein the monomer mixture comprises to an extent of at least 90 wt% of acrylates and/or methacrylates.

4. The formulation according to at least one of claims 1 to 3, wherein the acid-functional monomer comprises acrylic acid, methacrylic acid, itaconic acid and/or 2-carboxyethyl acrylate, preferably 2-carboxyethyl acrylate.

5. The formulation according to at least one of claims 1 to 4, wherein the monomer mixture comprises 20 to 60 wt% of MMA.

6. The formulation according to at least one of claims 1 to 5, wherein the monomer mixture consists of the acid-functional monomer and of further monomers selected from MMA, n-butyl (meth)acrylate, isobutyl (meth)acrylate, ethyl (meth)acrylate, propyl (meth)acrylate, ethylhexyl (meth)acrylate and/or styrene.

7. The formulation according to at least one of claims 1 to 6, wherein the monomer mixture contains up to 3 wt% of di- or trifunctional (meth)acrylates.

8. The formulation according to at least one of claims 1 to 7, wherein the polymeric constituent has a weight-average molecular weight M_w of between 10 000 and 200 000 g/mol.

9. The formulation according to at least one of claims 1 to 8, wherein the polymer formed has a glass transition temperature of between -20°C and 20°C.

10. The formulation according to at least one of claims 1 to 9, wherein the degree of polymerization on discontinuation of the polymerization is between 10 and 50 wt%.

11. A method for the intumescent coating of a metal surface, wherein the formulation according to any one of claims 1 to 10 is prepared, is applied within 1 to 20 minutes to the metal surface, and cures there within 60 minutes at a temperature of between 0 and 30°C.