primers for corrosion protection, NACE International, paper no. 07007 (2007)). These accelerated weathering methods seek to intensify the effects from the environment so that the film breakdown occurs more rapidly (Mitchell, M. J., Progress in offshore coatings, NACE International, paper no. 04001 (2004)). Lower rust creep means better overall anticorrosive performance.

Summary ~~of the invention~~

~~The object of the invention is achieved with~~ The present disclosure describes a coating composition comprising: a) a binder system selected from epoxy-based binder systems, silicate-based binder systems, polysiloxane-based binder systems, polyurethane-based binder systems, cyclized rubber-based binder systems, and phenoxy resin-based binder systems, b) zinc particles, c) microspheres, and d) at least 0.1% by weight of a conductive pigment selected from the group consisting of graphite, carbon black, graphene, aluminium, black iron oxide, antimony-doped tin oxide, mica coated with antimony-doped tin oxide, carbon nanotubes, carbon fibres, and any mixture thereof, wherein said microspheres are of spheroidal shape and made of a material selected from glass, ceramics, polymeric materials, and mixtures thereof.

In one aspect, the present invention refers to A coating composition comprising: a) a binder system selected from epoxy-based binder systems, silicate-based binder systems, polysiloxane-based binder systems, polyurethane-based binder systems, cyclized rubber-based binder systems, and phenoxy resin-based binder systems, b) zinc particles, c) microspheres, and d) at least 0.1% by weight of a conductive pigment selected from the group consisting of graphite, carbon black, graphene, aluminium, black iron oxide, antimony-doped tin oxide, mica coated with antimony-doped tin oxide, carbon nanotubes, carbon fibres, and any mixture thereof, wherein said microspheres are of spheroidal shape and made of a material selected from glass, ceramics, polymeric materials, and mixtures thereof, with the proviso that said microspheres are not hollow glass microspheres. In another aspect, the present invention refers to a kit of parts containing a coating composition as disclosed herein comprising two or more containers, wherein one container contains one or more curing agents and another container contains the remaining components of part a) as disclosed herein. In yet another aspect, the present invention refers to a coated structure comprising a metal structure having a coating of the coating composition as defined herein applied onto at least a part

of the metal structure. In a further example, the present invention refers to a method of coating a metal structure, comprising the step of applying to at least a part of said metal structure thereof a layer of a coating composition as defined herein.

In one ~~embodiment~~example, in the coating composition ~~according to the present invention~~as disclosed herein, said microspheres are not hollow glass microspheres.

Detailed description of the invention

The binder system may be selected from epoxy-based binder systems, silicate-based binder systems, polysiloxane-based binder systems, polyurethane-based binder systems, cyclized rubber-based binder systems, and phenoxy resin-based binder systems. The addition of zinc, microspheres, and conductive pigment is beneficial to each of these binder systems. However, the effect may be more pronounced in some of the binder systems. In one embodiment of the present invention, the binder system selected from epoxy-based binder systems, polysiloxane-based binder systems, polyurethane-based binder systems, cyclized