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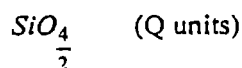
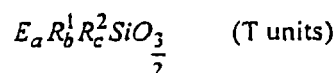
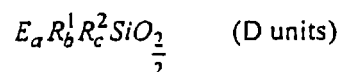
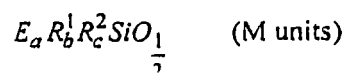
ADDITION-CROSSLINKABLE EPOXY-FUNCTIONAL ORGANOPOLYSILOXANE  
POLYMER AND COATING COMPOSITION

ABSTRACT OF THE DISCLOSURE



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The present invention pertains to an epoxy-functional organopolysiloxane resin, and an epoxy-functional organopolysiloxane coating composition comprising the epoxy-functional organopolysiloxane resin. The epoxy-  
5 functional organopolysiloxane resin which contains repeating units having the formulae:



wherein E is an epoxy-functional  $C_{1-18}$  hydrocarbon group containing one or more oxygen atoms, provided that no oxygen atom is directly bonded to a Si- atom; and  
10  $R^1$  and  $R^2$  are independently a  $C_{1-20}$  hydrocarbon, optionally interspersed with a heteroatom linking group,  
a is an integer of 0, 1, or 2, preferably 0 or 1;  
b is an integer of 0, 1, 2 or 3, preferably 0, 1, or 2;  
c is an integer of 0, 1, 2 or 3, preferably 0, 1, or 2; and  
15 in M units,  $a+b+c=3$ ,  
in D units,  $a+b+c=2$ ,  
in T units,  $a+b+c=1$ ,

with the proviso that the molecule, on average, contain at least two E components.

The epoxy-functional organopolysiloxane coating composition comprises the epoxy-functional organopolysiloxane resin of the present invention and a hardener. Preferably, the hardener is an amine hardener. The epoxy-functional organopolysiloxane coating composition may optionally include pigments, a flow additive and a catalyst. The epoxy-functional organopolysiloxane resin is preferably prepared by reacting a silicone resin with a silane having at least one epoxy group per molecule. The coating composition cures through the crosslinking of the epoxy groups in the E group of the resin to provide a coating which is weather and corrosion resistant. The polysiloxane moieties in the resin render the cured coating resistant to U.V. light and heat.