

Title (en)

SILICONE COATING COMPOSITION FOR PROTECTION FROM CATHODIC STRESS

Title (de)

SILIKONBESCHICHTUNGSZUSAMMENSETZUNG ZUM SCHUTZ VOR KATHODISCHEM STRESS

Title (fr)

COMPOSITION DE REVÊTEMENT DE SILICONE POUR PROTECTION CONTRE LA CONTRAINTE CATHODIQUE

Publication

**EP 2007924 A4 20101117 (EN)**

Application

**EP 06741356 A 20060314**

Priority

CA 2006000374 W 20060314

Abstract (en)

[origin: WO2007104121A1] This invention relates to a corrosion protection silicone coating system provides for easy and convenient application by conventional methods such as dipping, brushing or spraying. The coating provides a guard against environmental effects causing cathodic stress along with high physical strength and adhesion achieved with a suitable blend of reinforcing and extending fillers. The coating is an organopolysiloxane rubber coating composition containing between about 10 and 80 weight percent of a sacrificial metal filler to provide protection against environmental effects causing cathodic stress. Preferably, the coating is a one-part room temperature vulcanizing organopolysiloxane rubber coating composition to provide protection against cathodic stress. The present invention also provides for a method of coating metal surfaces to protect the metal surface from corrosion and cathodic stress. The method comprises applying to the surface a thin layer of the above one- part organopolysiloxane rubber composition and allowing the layer of the one-part organopolysiloxane rubber composition to cure at room temperature to a silicone elastomer.

IPC 8 full level

**C23F 13/02** (2006.01); **C08L 83/04** (2006.01); **C23F 11/173** (2006.01)

CPC (source: EP)

**C09D 5/10** (2013.01); **C09D 5/103** (2013.01); **C09D 5/106** (2013.01); **C09D 183/04** (2013.01)

Citation (search report)

- [Y] US 2003113461 A1 20030619 - AHMED FAROOQ [CA], et al
- [Y] WO 2006007985 A1 20060126 - DOERKEN EWALD AG [DE], et al
- [Y] CA 2280519 A1 20010220 - CSL SILICONES INC [CA]
- See references of WO 2007104121A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2007104121 A1 20070920**; BR PI0621505 A2 20111213; CA 2643006 A1 20070920; CN 101426958 A 20090506; EP 2007924 A1 20081231; EP 2007924 A4 20101117; MX 2008011825 A 20090130

DOCDB simple family (application)

**CA 2006000374 W 20060314**; BR PI0621505 A 20060314; CA 2643006 A 20060314; CN 200680054284 A 20060314; EP 06741356 A 20060314; MX 2008011825 A 20060314