

Title (en)  
LIQUID SILICONE FORMULATION FOR PRODUCING RELEASE AND WATER-REPELLENT CROSSLINKED ELASTOMER COATINGS ON A SOLID SUPPORT, SUCH AS A PAPER SUPPORT

Title (de)  
FLÜSSIGE SILIKONZUSAMMENSETZUNGEN FÜR HAFTMINDERNDE, WASSERABWEISENDE ELASTOMERE BESCHICHTUNGEN AUF FESTE SUBSTRATE, WIE PAPIER

Title (fr)  
FORMULATION SILICONE LIQUIDE POUR LA REALISATION DE REVETEMENTS ELASTOMERES R TICULS ANTI-ADHRENTS ET HYDROFUGES SUR SUPPORT SOLIDE, PAR EXEMPLE EN PAPIER

Publication  
**EP 1458828 A1 20040922 (FR)**

Application  
**EP 02793185 A 20021024**

Priority  
• FR 0203654 W 20021024  
• FR 0113915 A 20011026

Abstract (en)  
[origin: WO03035781A1] The invention concerns a liquid silicone formulation for producing release and water-repellent crosslinked elastomer coatings on a solid support, such as a paper support. The invention aims at solving the adherence defect of elastomer silicone films with release outer surface designed to be glued on soft supports such as closed paper, for example glassine or polypropylene polymer films. Therefor, the inventive liquid silicone formulation, for use as a coating base for high-speed production of crosslinked release and water repellent elastomer coating on a solid support, comprises at least a crosslinkable polyorganosiloxane POS (I), (SiVi-type POS and SiH-type POS); at least a (platinum-based) catalyst (ii); optionally an adherence modulator system (III); an adherence promoter (IV) comprising an epoxidized alkoxy silane and/or an alkenylated alkoxy silane, as well as a metal chelate and/or a metal alkoxide (GLYMO/MEMO/TiO4Bu). The POS (I) the most viscous has a viscosity less than 1000 mPa's. The invention is for paper release coating.

IPC 1-7  
**C09D 183/04**; **C08J 7/04**

IPC 8 full level  
**C08L 83/07** (2006.01); **C08K 5/057** (2006.01); **C08K 5/5425** (2006.01); **C08K 5/5435** (2006.01); **C08L 83/05** (2006.01); **C09D 183/04** (2006.01); **C09J 7/00** (2006.01); **D06M 13/513** (2006.01); **D06M 15/643** (2006.01)

CPC (source: EP US)  
**C09D 183/04** (2013.01 - EP US); **Y10T 428/31663** (2015.04 - EP US)

Citation (search report)  
See references of WO 03035781A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SK TR

DOCDB simple family (publication)  
**WO 03035781 A1 20030501**; BR 0213759 A 20041019; EP 1458828 A1 20040922; FR 2831547 A1 20030502; FR 2831547 B1 20050819; JP 2005506437 A 20050303; US 2005053793 A1 20050310

DOCDB simple family (application)  
**FR 0203654 W 20021024**; BR 0213759 A 20021024; EP 02793185 A 20021024; FR 0113915 A 20011026; JP 2003538286 A 20021024; US 49357704 A 20041028