

Title (en)
EDGE SEAL AND SEALING METHODS FOR APPLIQUES

Title (de)
KANTENVERSIEGELUNG UND SIEGELVERFAHREN FÜR ANWENDUNGEN

Title (fr)
JOINT POUR BORD FRANC ET PROCEDE D'ETANCHEITE POUR FILM AUTOCOLLANT

Publication
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Application
EP 99928758 A 19990614

Priority

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Abstract (en)
[origin: WO9965674A1] An edge seal comprising a concentrated topcoat with suitable additives to form a caulking compound improves the performance of appliques. Increasingly, stringent environmental restrictions make it challenging to apply coatings (i.e., paint) by conventional processes like spray painting because of the volatile solvents and hazardous pigments. The environmental scrutiny is particularly focused upon conventional corrosion protection surface treatments, especially chromated primers and conversion coatings. We apply appliques to provide a vapor barrier over the substrate to provide corrosion protection. We can make curved appliques on a family of molds of different Gaussian curvature and thereby avoid making a "splash" mold of the surface of interest to create the appliques. Using curved appliques reduces ridges, creases, or gaps that sometimes otherwise occur with attempts to cover a surface with complex curvature with flat (planar) appliques. Appliques are interconnected and sealed together using a concentrated topcoat (typically a fluoroelastomer or fluoropolymer) that has volatile organic compounds stripped from it to thicken the resulting edge seal to ease its application (no drips or runs), to improve its ability to stick, and to improve its toughness and corrosion inhibiting capability. The edge seal becomes an extension of the appliques topcoat and should possess the physical and chemical characteristics of the topcoat.

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CPC (source: EP US)
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Citation (search report)

- [PX] WO 9828377 A1 19980702 - BOEING CO [US], et al
- See references of WO 9965674A1

Cited by
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