

Fluoroelastomer Compositions Having Self-Bonding Characteristics and Methods of
Making Same

ABSTRACT OF THE DISCLOSURE

5 Self-bonding curable fluoroelastomer compositions are provided wherein
the compositions including a) a fluoropolymer composition having at least one curable
fluoropolymer; and b) a compound selected from the group consisting of aluminum
acrylates, silicon acrylates, and ammonia acrylates, wherein the self-bonding curable
fluoroelastomer composition is able to bond directly to a substrate. Bonded structures
10 formed of such self-bonding compositions and a substrate having a surface bonded thereto
are also described herein along with a method for bonding a self-bonding curable
fluoroelastomer composition to a substrate surface. The fluoroelastomers herein may
encompass both non-fully fluorinated (FKM) and fully fluorinated (FFKM) elastomers.

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Figure 7