

COATING, COATING COMPOSITION AND
METHOD OF FORMING COATING

ABSTRACT

A coating on a substrate which endows the substrate with a desired surface property, the coating comprising a cross-linked polysiloxane containing X'- and X- groups attached to different Si atoms wherein the groups X'- are monovalent organic groups which provide the desired surface property and the groups X- are monovalent organic groups which are reactive with a group on the substrate surface and have a higher surface tension than the groups X'-, said coating being bonded to said substrate by reaction of X- groups with substrate surface groups reactive therewith. In one embodiment a non-wetting coating is provided wherein the X'-group has the formula CF_3Z where Z is a divalent organic group or the formula $\text{CH}_2(\text{CH}_2)_t$ where t is at least 3.

