

ABSTRACT

A Polymer Composition and Preparation Method Thereof

The present invention relates to a polymer having formula { I } : >L X Formula I wherein the line " " represents a covalent bond, or a linkage group selected from: -NRC(0)O- , -C(0)OC(0)- , -NR- , -C(0)NR- , -NHC(0)NH- , wherein R is H, optionally substituted C1-C6 alkyl, C1~C6 heteroalkyl, carbocycle, aryl, or heteroaryl; P is a polymer comprising y number of peripheral functional groups; L is a linker moiety selected from optionally substituted, aliphatic, branched or cyclic alkyl, aryl, phenyl, or alkylene diphenyl; A is a hydrophobic functional group; B is a hydrophilic functional group, and carboxylate; and X is a cross-linkable functional group; each of m, n and q are greater than zero, and wherein $m + n + q \leq y$, and use of the polymer for preparing coating compositions.

[FIG. 1]