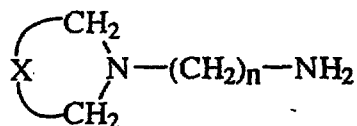
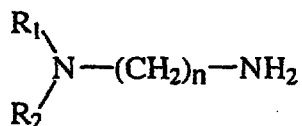


ABSTRACT

HIGH-SOLIDS EPOXY COATINGS BASED ON PRIMARY-TERTIARY DIAMINES

An amine hardener composition for curing epoxy resin based coatings and related products comprising (A) from 5 to 75% of a diamine which possesses a vapor pressure less than about 133 Pascals at 20°C, contains both a primary and a tertiary amine and corresponds to either of the structures:



where R_1 and R_2 are independently C_1 - C_8 alkyl; X is $-CH_2-CH_2-$, $-CH_2-CH_2-CH_2-$, or $-CH_2-O-CH_2-$; and n is 2-6, (B) from 5 to 95% of a polyamide, amidoamine, Mannich base or cycloaliphatic amine curing agent; and (C) from 0 to 50% of other active hydrogen containing diamines or polyamines. Coatings based on the composition can be formulated at up to 100% solids, and have an excellent combination of pot life and dry speed.

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