Claims

1. A coating composition comprising

a resin material comprising a polyester imide polymer

one or more titanate material; ~~and~~

one or more OH reactive cross linking material; and

one or more acidic polyester material.

2. A coating composition according to claim 1, wherein the composition further comprises one or more silane material.

3 A coating composition according to ~~any preceding~~ claim 2, wherein the silane material comprises a silane material according to Formula I, or a polysiloxane polymer derived from one or more silane material according to Formula I:

$$(R^1)_nSi(OR^2)_m \qquad I$$

wherein each R^1 is independently selected from an optionally substituted linear or branched alkyl group, which may comprise one or more functional groups;

each R^2 independently represents H or an alkyl group optionally substituted linear or branched alkyl groups;

n= 1 to 3;
m= 1 to 3; and
n+m=4.

4. A coating composition according to claim 3, wherein the or each functional group comprises any one or more of the following groups: hydroxyl, epoxy, amino (primary, secondary or tertiary), amido, cyano, isocyano, ethylenic unsaturation (ie one or more carbon – carbon double bonds), carboxylic acid, aldehyde, ketone, C=O, esters (such as C1 to C4 alkyl esters of carboxylic acids), alkyl carboxyl oxy (such as optionally substituted, linear or branched, saturated or unsaturated C1 to C6 alkyl carboxyl oxy, including acryloxy and methacryloxy).

$CH(CH_2)_2)_4$; or tetra ethyl hexyl titanate, $Ti(O\text{-}CH_2\text{-}CH(C_2H_5)\text{-}CH_2\text{-}CH_2\text{-}CH_2\text{-}CH_3)_4$.

13. A coating composition according to any preceding claim, wherein the OH reactive cross linking material comprises phenolic material, isocyanate material, amino resin or hydroxyl functional silicone resin material.

~~14. A coating composition according to any preceding claim, which further comprises one or more acidic polyester material.~~

14~~5~~. A coating composition according to any preceding claim, which is substantially free of bisphenol A and derivatives or residues thereof, and bisphenol F and derivatives or residues thereof.

15~~6~~. A coating composition according to any preceding claim which is substantially free of N-methyl pyrollidone.

16~~7~~. A coating composition according to any preceding claim, wherein the coating composition is a powder coating composition.

17~~8~~. A coating composition according to any of claims 1 to 15~~6~~, wherein the coating composition further comprises one or more solvent.

18. A coating composition according to claim 1, wherein the acidic polyester material comprises the reaction product of one or more polyester with a phosphorous acid.

19. A metal substrate, such as aluminium, coated with a coating composition according to any of claims 1 to 18.

20. An aluminium tube coated on at least a portion thereof with a coating composition according to any of claims 1 to 18.

21. A monoblock aerosol can coated on at least a portion thereof, such as an inside portion thereof, with a coating composition according to any of claims 1 to 18.

22. A method of coating a substrate, the method comprising applying a coating composition according to any of claims 1 to 18 to the substrate and curing the same.

~~23. Use of~~

~~a resin material comprising polyester imide~~

~~one or more titanate material; and~~

~~one or more OH reactive cross linking material~~

~~for lowering the cure temperature of the coating composition.~~

234. Use of an acidic polyester as an adhesion promoter in a coating composition, the coating composition comprising

a resin material comprising polyester imide

one or more titanate material; and

one or more OH reactive cross linking material; and

one or more acidic polyester material.

~~25. Use of a silane material for improving chemical resistance in a coating composition, the coating composition comprising~~

~~a resin material comprising polyester imide~~

~~one or more titanate material; and~~

~~one or more OH reactive cross linking material.~~