

composition and process for treating metal
Abstract of the Disclosure

Heating an aqueous mixture of a fluoroacid such as H_2TiF_6 and an oxide, hydroxide, and/or carbonate such as silica produces a clear mixture with long term stability against settling of any solid phase, even when the oxide, hydroxide, or carbonate phase before heating was a dispersed solid with sufficiently large particles to scatter light and make the mixture before heating cloudy. The clear mixture produced by heating can either be mixed with water soluble and/or water dispersible polymers that are polyhydroxyalkylamino- substituted polymers and/or copolymers of p-vinyl phenol, or with soluble hexavalent and/or trivalent chromium, to produce a composition that improves the corrosion resistance of metals treated with the composition, especially after subsequent painting.

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