

Title (en)

METAL PRETREATMENT COMPOSITION CONTAINING ZIRCONIUM, COPPER, AND METAL CHELATING AGENTS AND RELATED COATINGS ON METAL SUBSTRATES

Title (de)

METALLVORBEHANDLUNGSZUSAMMENSETZUNG MIT ZIRKONIUM, KUPFER UND METALLCHELATBILDNER SOWIE DEREN BESCHICHTUNGEN AUF METALLSUBSTRATEN

Title (fr)

COMPOSITION DE PRÉTRAITEMENT POUR DES MÉTAUX CONTENANT DU ZIRCONIUM, DU CUIVRE ET DES AGENTS DE COMPLEXATION MÉTALLIQUES ET REVÊTEMENTS CORRESPONDANTS APPLIQUÉS SUR DES SUBSTRATS MÉTALLIQUES

Publication

**EP 2649219 B1 20210414 (EN)**

Application

**EP 11847810 A 20111207**

Priority

- US 42050910 P 20101207
- US 2011063789 W 20111207

Abstract (en)

[origin: WO2012078788A2] Disclosed is a zirconium-based metal pretreatment coating composition that includes a metal chelator that chelates copper in the metal pretreatment coating composition and thereby improves adhesion of paints to a metal substrate coated with the pretreatment coating composition. The pretreatment coating composition has a longer pot life than one without the metal chelator and therefore can accommodate a wide latitude of application times. The chelating agent is present in a sufficient amount to ensure that in the deposited pretreatment coating on the metal substrate the average total atomic % of copper to atomic % of zirconium is equal to or less than 1.1. The pretreatment coating composition is useful for treating a variety of metal substrates.

IPC 8 full level

**C23C 22/34** (2006.01); **C23C 22/73** (2006.01); **C23C 22/78** (2006.01)

CPC (source: EP)

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Citation (opposition)

Opponent : PPG Industries, Inc.

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EP4112773A1; WO2023275270A3

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