

Adhesion Promoter DCA-7421

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Introduction

DCA-7421 is a highly active organic compound supplied in a blocked form. It exhibits low reactivity at room temperature, but upon reaching temperatures above 60°C, it undergoes unblocking to generate functional groups capable of reacting with hydroxyl (-OH), amino (-NH₂), carboxyl (-COOH), and other functional groups on resins and substrates. This forms an intermediate layer between the substrate and the resin, significantly enhancing adhesion in the system. It can be widely used in coatings, inks, and other systems and is suitable for substrates with hydroxyl groups, such as PET, PA, metal (aluminum, iron), and pre-treated PP and PE.

Physicochemical Data

- Chemical composition: Organic titanium compound
- Appearance: Yellow transparent solution
- Active content: 75%
- Solvent: Mixed alcohol ether

Product features

- DCA-7421 improves adhesion of paint films to substrates even at low addition levels.
- Due to its unique mechanism, DCA-7421 not only enhances adhesion but also improves the strength and solvent resistance of the paint film
- DCA-7421 requires the presence of active functional groups on the substrate. For inert substrates, surface treatment is required beforehand

Application areas

DCA-7421 can be used in acrylic amino baking paints, alkyd amino baking paints, polyester amino baking paints, two-component polyurethane coatings, and other systems. It is not suitable for self-drying systems.

Similar Products: Tyzor AA-75

The recommended dosage is generally 0.2% to 2% of the total system, depending on the formulation. Due to the high reactivity of DCA-7421, careful evaluation of its storage stability in the paint film is necessary before use

Addition Method

The recommended dosage is between 0.1% and 5%, and it can be added before or after other components.

Packaging and storage:

25KG plastic drum, stored in a cool and dry place.

Note: The purpose of this manual is to provide basic product information to technical personnel involved in the development of coatings, inks, pesticides, and other industries. It is intended for research and reference use and does not carry any warranties. Please conduct preliminary tests to assess its suitability.