

CASE STUDY

Get effective TiO₂ dispersion for your whole Coatings range thanks to a unique dispersant, Coadis™ 144 A



Additive : Coadis™ 144 A dispersing agent (specially designed for TiO₂ dispersion)

Application : Architectural / Decorative - waterborne exterior and interior coatings

Key benefits

- › **Formulation flexibility** thanks to product versatility
- › **Good optical properties** (maximized gloss, good color acceptance, desired opacity)
- › **Optimized paint performance**
- › **Easy handling & processing**

The Challenge

Have you ever experienced formulation and compatibility issues when trying to develop a wide range of coatings with different TiO₂ grades but using the same dispersing agent?

And what about the difficulties you may face in handling and processing the tint bases?

Are you still seeking a unique dispersing solution that would bring you more flexibility and help to somehow overcome these issues without compromising on paint performance (sag and flow/leveling, scrub resistance...)?

Have a look below: we have a solution to suggest!

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The Solution

Coadis™ 144 A is a **pigment dispersant** specifically designed for a wide variety of rutile TiO_2 .

It provides outstanding performance to a broad spectrum of waterborne exterior and interior coating formulations.

Coadis™ 144 A is designed to enable maximized gloss potential, while providing ideal viscosity, flow and wet adhesion across a wide range of sheens (from flat to high gloss).

In addition, thanks to Coadis™ 144 A, sag, flow and leveling properties are not compromised.

Last but not least, Coadis™ 144 A shows synergistic effects with TiO_2 pigment slurries used in paint formulations dispersed with similar hydrophilic copolymer technology.

› Formulation flexibility thanks to product versatility

Coadis™ 144 A enables a good dispersion and stabilization of pigments and it is **versatile** across:

- ▶ a **broad range of paint sheens** from low sheen flats to high gloss enamels (interior and exterior waterborne applications)
- ▶ **TiO_2 grades and surface treatments**

Thanks to this unique and effective solution, you can limit the raw material and supplier selection complexity.

› Good optical properties

As shown in the graphs below, Coadis™ 144 A provides the desired optical properties (**Opacity** and **Gloss**) to the formulated coating:

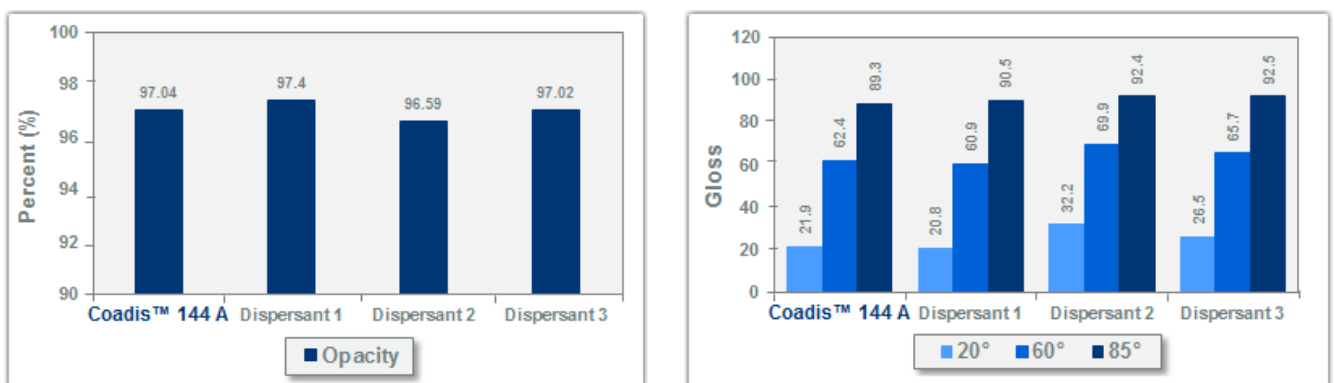


Figure 1: Optical results. Coadis™ 144 A vs. Benchmarks

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› **Optimized paint performance**

When formulating with Coadis™ 144 A dispersing agent, you can get the **required sag, flow and leveling properties** as you can see in the figure below:

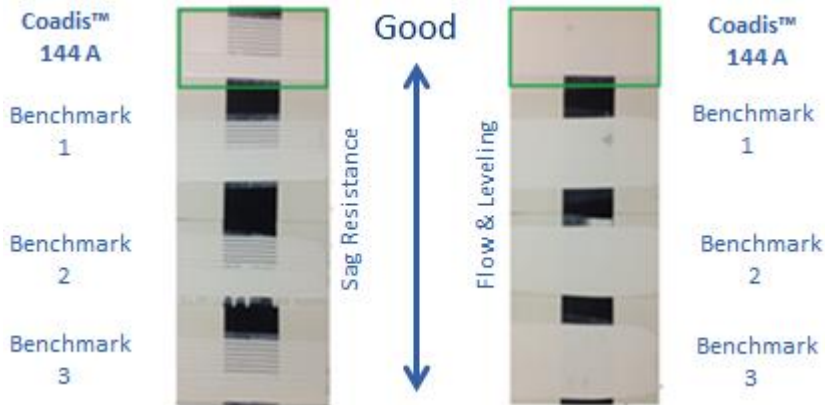


Figure 2: Sag, flow & leveling results – Coadis™ 144 A vs. benchmarks

Coadis™ 144 A provides the best balance between sag resistance, flow & levelling:

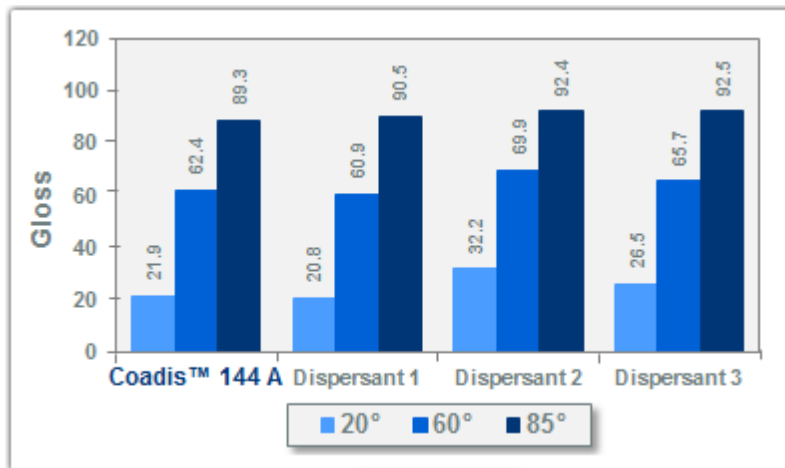


Figure 3: Viscosity, sag, flow & leveling results - Coadis™ 144 A vs. benchmarks

› **Easy handling & processing**

Coadis™ 144 A can contribute to **reduce foaming issues** and thus it brings ease of handling and processing to coating formulators.

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Want to test Coadis™ 144 A or get in contact with us?



Contact us on [SpecialChem.com](https://www.SpecialChem.com)

