





IDEAL Institute of Coating Technology

INSTACOAT T2F Clean Label & **TiO2 and talc free Film Coating Systems**





INSTACOAT T2F

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न तन्त्रज्ञाने न सद्भाष 14 September 2017 CLH-O-0000001412-86-163/F



 \triangleright The Risk Assessment Committee of the European Chemicals Agency (ECHA) has proposed that the white pigment titanium dioxide (TiO_2) be classified as a potential carcinogen

 \triangleright Talc also has been under scrutiny for being possibly carcinogenic.

OPINION OF THE COMMITTEE FOR RISK ASSESSMENT ON A DOSSIER PROPOSING HARMONISED CLASSIFICATION AND LABELLING AT EU LEVEL

ECHA







* Depends on the coating formulation & solvents



Features

- TiO₂ & Talc free Coating Formulation
- It can be formulated with Aluminum Lakes, Iron Oxides and Natural pigments

and can also include flavors and cooling booster.

Benefits

- Suited for Pharmaceutical & Nutraceutical Applications.
- Label friendly coatings.
- Fulfill customer needs for titanium di oxide and talc free coatings.
- Choice to use suitable colorants without impacting the coloring properties
- Easy scale-up and transfer to different equipment types or manufacturing sites.







Contrast Ratios were checked and compared with the regular TiO_2 based coating formulations using the Data Color instrument.



The Opacity value of the Instacoat T2F formulations was comparable to regular TiO2 based formulation



WVTR





Temperature (°C) - 25±5 and Humidity (%RH) - 50±10, Thickness of the films (mm): 260±10

000 Instrument **WVTR**

The MVTR Value of the Instacoat T2F formulation is not significantly different to the regular TiO2 based formulations

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ADHESION





*Temperature (°C) - 25.0±5 and Humidity (%RH) - 50±10 *Preload/stress- 0.098100 N, Preload/stress speed: 21.000 mm/min **Universal Testing Machine**

The Adhesion property of Instacoat T2F formulation is not significantly different to the regular TiO2 based formulations

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Aim



To evaluate and compare the coating process of Instacoat T2F with regular PVA based formulation comprising of talc.

Method

- Placebo Tablets were used as a substrate for both the coatings
- > An 24 inches Conventional Pan equipped with spraying systems spray gun was used for the coating
- > Both the coatings were executed till 3 % weight gain over the Placebo tablets respectively
- All the critical process parameters (Product Temperature, Spray Rate, Pan RPM, Atomizing Air Pressure etc.) were kept similar for both the trials

Cont.,



Process parameter	Instacoat EHP 250	Instacoat T2F
Batch Size (kg)	25	25
Product bed Temperature (°C)	42-45	
Pan RPM	12	12
Atomizing air pressure (kg/cm ²)	3 to 4	
Spray rate (gm/min)	50	
Percent Weight gain (%)	3	3
Appearance of coated tablets (n=100)	Smooth coating surface	Smooth coating surface
Coating defects (n=100)	No Coating defects	No Coating defects

Coating trials were successfully executed while maintaining similar coating parameters. Coating process was smooth with the Instacoat T2F formulation and similar to the Talc and Ti02 based coating formulation .



COATED TABLETS - INSTACOAT T2F









The Physical characteristics of Instacoat T2F coatings were assessed and found similar to typical film coatings containing Talc and TiO_2 .

Instacoat T2F coating formulations provide a good alternative to typical coatings containing titanium di oxide for Pharmaceuticals/Nutraceuticals exhibiting good hiding and coloring properties.

The coating process is similar to a typical Talc and TiO_2 based coating formulation.



Thank You

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