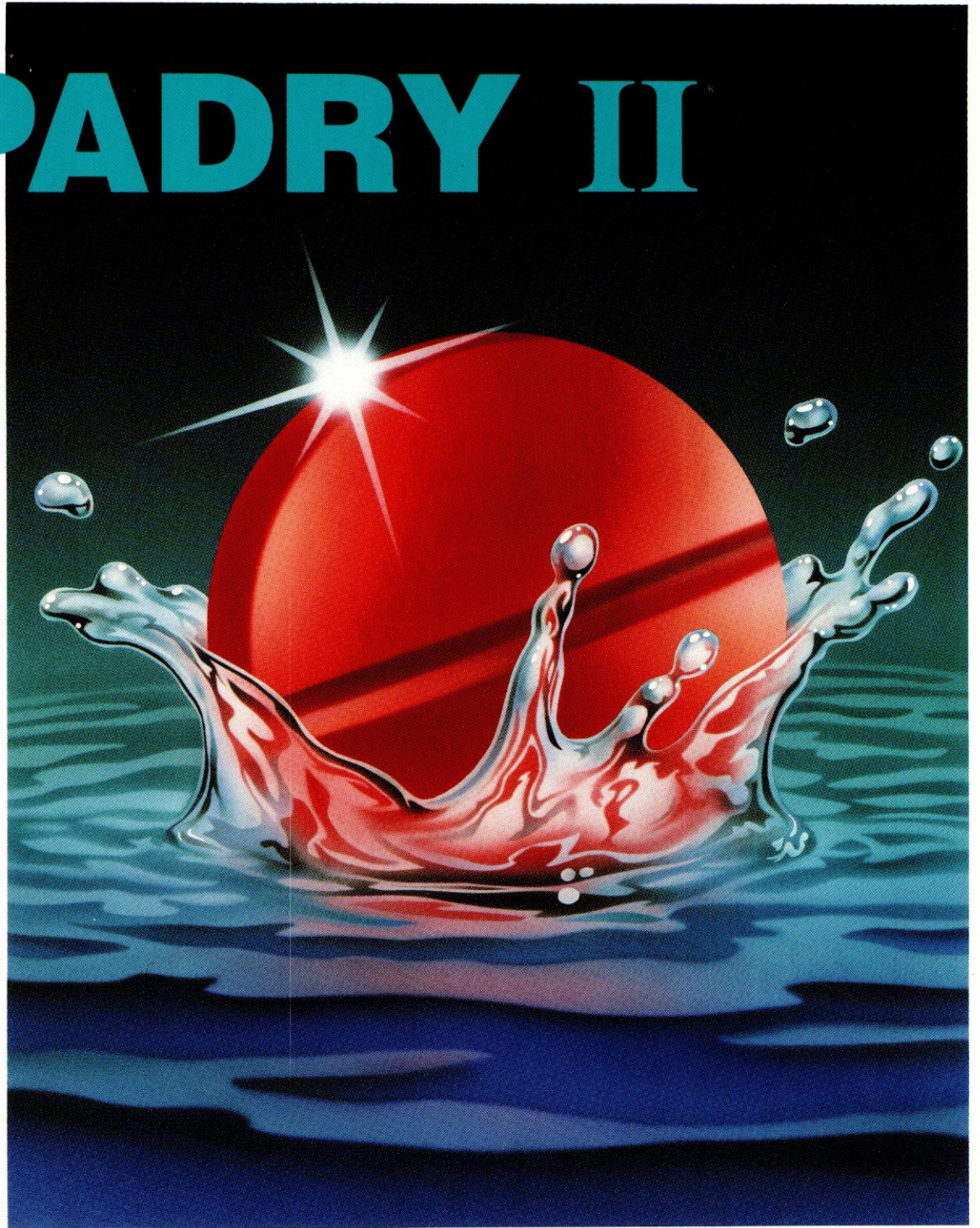


OPADRY II



*The most
significant advancement
in film coating
since OPADRY.[®]*

Formulated to dramatically increase your productivity.

OPADRY II

The most significant advancement in film coating since OPADRY.

Not since the introduction of aqueous coating and OPADRY has there been a product that will revolutionize the way you film coat tablets. Now there's OPADRY II film coating concentrate. OPADRY II is a complete film forming system, which through the use of innovative new polymers, provides you with exceptional increases in tablet throughput. Productivity increases of up to 50% have been achieved. Even higher rates are well within reach depending upon specific applications. Available as either a colored or clear system, OPADRY II is also particularly suited for use on difficult to coat tablet cores such as wax-matrix, potassium chloride (sustained release), high dosage tablets (calcium supplements) and deeply embossed tablets. An advancement of OPADRY technology, OPADRY II provides remarkable increases in productivity, film adhesion, color stability to light as well as unsurpassed logo definition. This enhanced performance is achieved without sacrificing the conveniences and ease of use you've come to expect from OPADRY.

Whatever your tablet formulation, the key benefits of OPADRY II make it the obvious system of choice.

Increased Productivity

Substantially increases the amount of tablets produced by your coating department in a single shift.

Improved Color Stability to Light

Color fading of coated tablets is significantly reduced.

Increased Adhesion

Tough ones like wax-matrix and high dosage tablets are easily coated. The adhesive quality of OPADRY II outperforms anything else on the market today.

Unsurpassed Logo Definition

OPADRY II enhances even the most detailed embossed tablet logo.

■ **Productivity**

Innovative new polymers allow OPADRY II increases in solids content of coating solution decrease in coating times. Comparisons of the increase in throughput achieved from rec indicates that even greater rates are achieved OPADRY II formulation and application.

■ **Side by Side Comparison Performed in a 48" Accelerator**

(30mg Pseudophedrine Tablets)

Tablet charge:

Solids content of coating liquid:

Quantity of coating liquid applied:

Theoretical weight gain:

Approximate spray rate:

Coating time:

■ **Time savings:**

■ **Productivity Increase:**

The many benefits provided by OPADRY II are not only major benefits *throughout* your organization... Manufacturing and R & D receive benefits not available from traditional

to be formulated to provide significant
n. This results in a corresponding
ctual production runs clearly demonstrate
uced processing time. Additional testing
le depending upon the particular

of Coating Processes a Cota

Standard PADRY OPADRY II

1	120kg
15% w/w	20% w/w
40kg	30kg
5%	5%
450g min ⁻¹	450g min ⁻¹
89 min.	67 min.

22 min.

33%

ot line to a single department. It provides
ufacturing, Marketing, QC, Inventory Control
ditional coating systems.

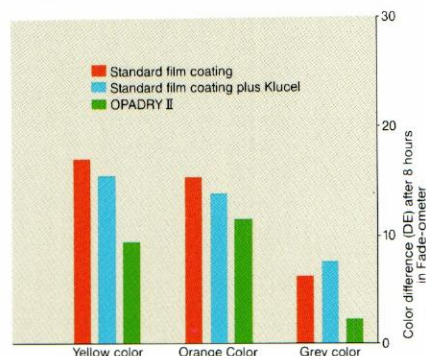
Color Stability

Color stability has been determined by exposing film samples to accelerated light conditions using an Atlas Fade-ometer. The color of the sample after 8 hours is measured and compared to the initial color.

From the initial and 8 hour values, the color difference (DE) is calculated. Samples can be ranked for color stability based on the magnitude of the color difference—with the lower values of color difference (DE) relating to more stable color.

As can be seen, when exposed to these conditions, OPADRY II formulations are more stable to light.

COLOR STABILITY COMPARISONS
TO ACCELERATED LIGHT CONDITIONS
OPADRY II vs Standard Film Coating Systems



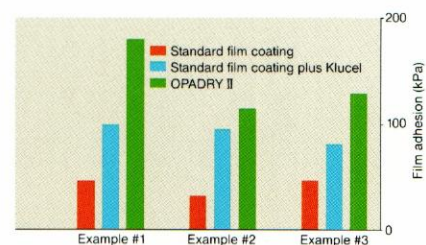
Film Adhesion

High adhesion values for film coating are a benefit since they ensure that tablet logos remain clear and distinct after film coating.

Adhesion of film coatings has been determined by measuring the force required to peel the film from a tablet surface.

Test results confirm that superior adhesion is obtained when using OPADRY II formulations.

FILM ADHESION STUDY
OPADRY II vs Standard Film Coating Systems

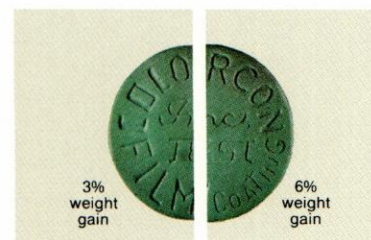


Logo Definition

The quality appearance of a film-coated tablet containing a logo often depends on how well the coating adheres to the tablet surface and how much coating is applied to obtain uniform color.

Photomicrographs indicate that high quality logo definition is obtained using OPADRY II formulations—even at high weight gains (e.g. 6%).

WEIGHT GAIN
COMPARISON



Added Benefits

OPADRY II retains the many benefits found in OPADRY. It is a complete system combining polymer, plasticizer, and pigment in a simple dry mix, which considerably reduces inventory and raw material testing requirements. It is easy to use; just add to water, mix and apply. Coating solutions are ready in 30-45 minutes—no overnight hydration is required. OPADRY II also reduces water contact with the product, optimizes solution coating solids content and eliminates the use of preservatives necessary when holding conventional aqueous solutions.

OPADRY II is an advanced coating system yielding benefits applicable in many areas. An additional and very important benefit is the availability of outstanding technical support that is provided with the development of each OPADRY II system. Colorcon's technical services are unmatched in the industry with specialists in film coating available to assist you with every aspect of your coating needs from concept development to production.

With OPADRY II you can take advantage of the many benefits of aqueous film coating and receive additional benefits helpful to other areas of your organization. OPADRY II enables you to produce an elegant, unique and high quality solid dosage form and achieve outstanding performance and efficiencies at the same time.



OPADRY II

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in film coating since OPADRY.*


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