

**Optimize coating efficiency,
processing and spraying times**

High-performance coating system additives

PlasACRYL®



PlasACRYL® HTP20 and PlasACRYL® T20



Two high performance coating system additives for use with EUDRAGIT® polymers. PlasACRYL® optimizes coating efficiency and reduces processing times, thereby achieving significant cost savings with no loss in quality.

Increasing production efficiency continues to be a key challenge for the pharmaceutical industry. Even incremental optimizations can have a measurable impact on both revenue growth and margin. Companies able to accelerate product development while lowering production costs can transform this challenge into a market opportunity leading to profitability and improved business performance.

PlasACRYL® is a coating additive that results in shorter preparation and spraying times. This significantly lowers production costs without diminishing the functionality of your final dosage form. In fact, PlasACRYL® can lead to an even better coating quality.

PlasACRYL® is available in two grades: PlasACRYL® HTP20 is specially formulated for EUDRAGIT® L 30 D-55 applications and PlasACRYL® T20 has been developed for use in EUDRAGIT® FS 30 D coatings.

Both PlasACRYL® HTP20 and PlasACRYL® T20 grades are 20% aqueous suspensions, containing an anti-tacking agent, a plasticizer and a stabilizer.

PlasACRYL® was developed by Emerson Resources, Inc. (Norristown, PA, USA) and is also being produced by them. Evonik is the exclusive worldwide distributor of PlasACRYL®.

Maximize performance: EUDRAGIT® and PlasACRYL®

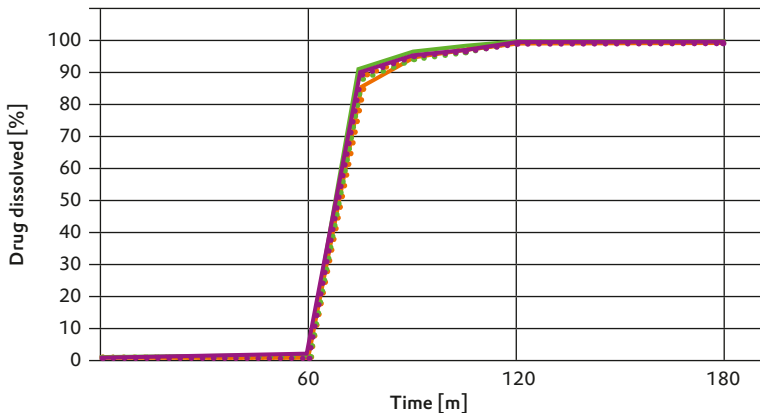
There are several compelling reasons to switch to using PlasACRYL® as an alternative to conventional talc or GMS systems. However, the bottom line is that it offers you the ability to achieve the highest quality with the minimum of time and effort.

QUALITY AND PERFORMANCE

PlasACRYL® HTP20 is optimized for enteric coatings, especially in conjunction with EUDRAGIT® L 30 D-55. It offers the

same high quality release characteristics as GMS or talc systems and has even been shown to improve product stability.

Example 1: Release profiles of lansoprazole pellets coated with 15% EUDRAGIT® L 30 D-55



- Talc formulation, initial
- Talc formulation, 6 months
- GMS formulation, initial
- GMS formulation, 6 months
- PlasACRYL® HTP20 formulation, initial
- PlasACRYL® HTP20 formulation, 6 months



PlasACRYL® is not limited to use with EUDRAGIT® L 30 D-55. Other polymers can be combined with PlasACRYL® to optimize coating efficiency while reaching the same quality performance:

PlasACRYL® T20

- Optimized for colon targeting with EUDRAGIT® FS 30 D
- Suitable for enteric coatings with EUDRAGIT® L 30 D-55
- Suitable for sustained release coatings with EUDRAGIT® RL 30 D & RS 30 D

PlasACRYL® HTP20

- Optimized for enteric coatings with EUDRAGIT® L 30 D-55
- Suitable for sustained release coatings with EUDRAGIT® RL 30 D & RS 30 D

TIME SAVINGS

PlasACRYL® compared to talc formulations

Using PlasACRYL® compared to conventional talc systems has proven to deliver notable time savings:

- Up to a 50% reduction in preparation times
- Up to a 30% reduction in coating times
- Less downtimes due to clogged nozzles

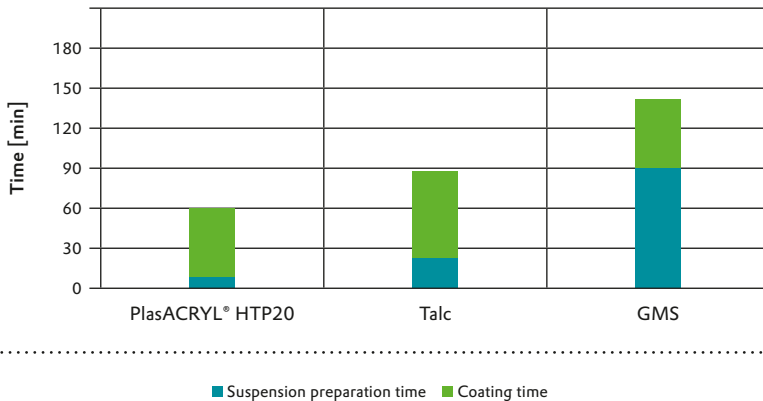
PlasACRYL® compared to GMS systems

As compared to conventional GMS systems, PlasACRYL® offers you a less complicated preparation process without significant regulatory impact:

- No high shear mixing needed
- No heating of water needed
- No cooling/degassing time required after spray suspension preparation
- Less weighing steps

This adds up to more than a 50% time savings in total processing time of tablet coating.

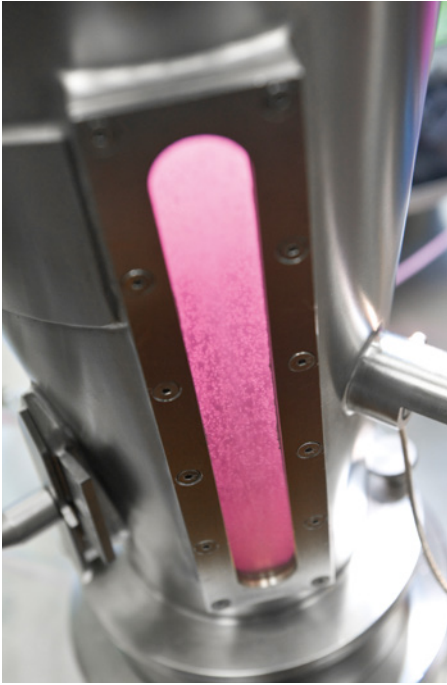
Example 2: Comparison of total processing time of tablet coating



COST SAVINGS

PlasACRYL® has been developed to increase product efficiency and reduce complexity. You benefit from ongoing savings due to:

- Lower production costs
- Decreased weight gain due to less solids (10 x less than talc)
- Simplified purchasing, quality control, preparation and storage processes
- Less equipment necessary



PROCESS ADVANTAGES

PlasACRYL® offers superior ease-of-use for coating with acrylic emulsions and dispersions. A number of calculable process advantages include:

- Reduced risk of production mistakes and batch failures
- Less sediment than with talc formulations
- Elimination of ionic charges usually associated with talc
- Simplification of the imprinting process due to a smoother surface

WHY NOT REQUEST SAMPLES RIGHT AWAY?

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We offer free samples of PlasACRYL® and our EUDRAGIT® polymers.

Simply login to our free online platform, onCare, to order samples using our comprehensive self-service module.

<http://oncare.evonik.com/>

Alternatively, please feel free to contact your regional Evonik representative to discuss your individual requirements as well as to order free samples.

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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