

EUDRAGIT® E PO ReadyMix

Taste masking and moisture protection
for immediate drug release

Eudragit®





Achieve superior quality for your protective coatings and save production costs

Masking the taste and odor of tablets and particles for immediate drug release is easy with EUDRAGIT® E PO ReadyMix.

This powder blend, custom-made to your requirements, comes ready to use and saves you time and money without sacrificing the quality of your coatings. Our "ReadyMix" is always customized to integrate your desired pigments or other excipients, ensuring batch-to-batch consistency and perfect color reproducibility.

A coating suspension can easily be prepared by adding water.

The preparation time for the coating suspension is:

- Approx. 30 minutes with a high-shear mixer
- Approx. 60 minutes with a propeller mixer

Preparation times can be further reduced as required by using warm water.

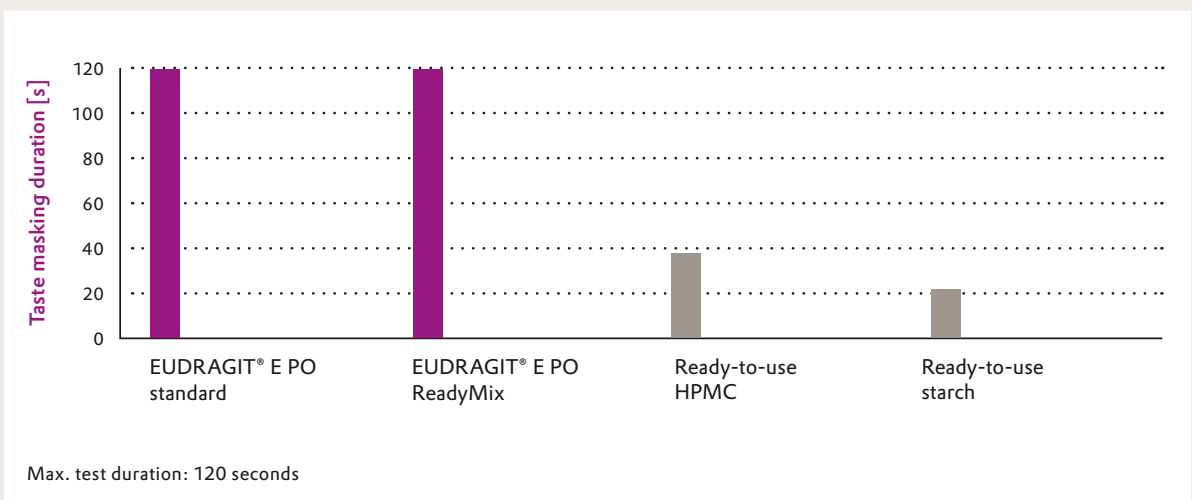


The spraying process can be performed in the same convenient manner as other aqueous EUDRAGIT® coatings. A low process temperature can be advantageous when processing sensitive actives.

EUDRAGIT® E PO ReadyMix powerfully masks the taste and odor of actives and excipients because the functional polymer is insoluble in the mouth and in water (Figure 1).

Furthermore, it protects the dosage form from moisture and light without causing any delay in drug release. Once the tablet reaches the stomach, the coating immediately dissolves and releases the active.

Figure 1: Taste masking of coated paracetamol tablets



Electronic tongue results prove taste masking efficiency of EUDRAGIT® E PO ReadyMix

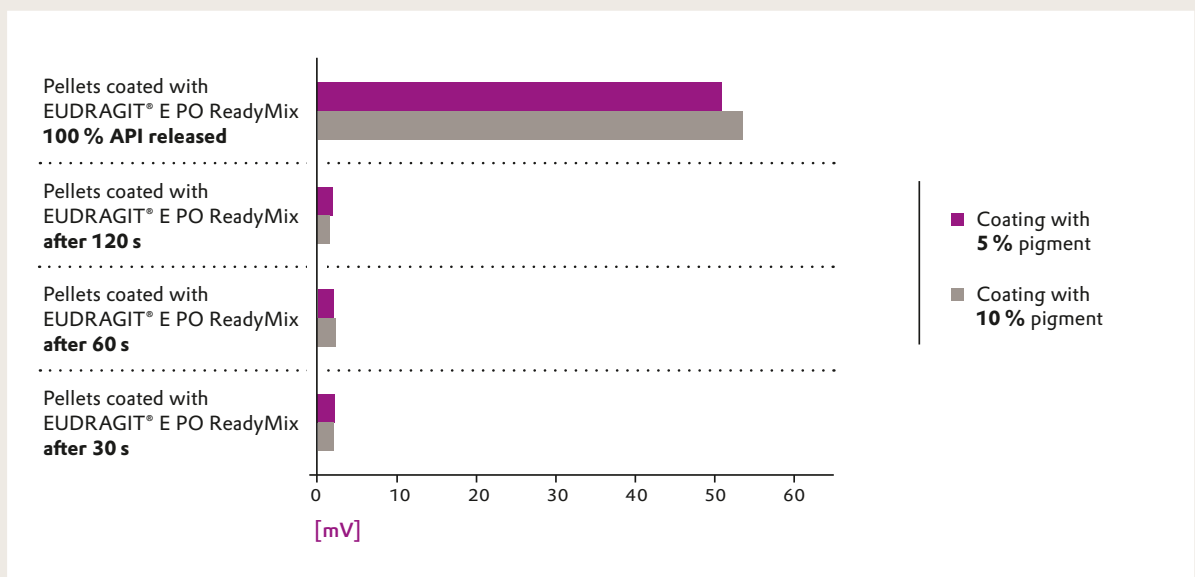
EUDRAGIT® E PO is the functional polymer that gives coatings made with the "ReadyMix" the following properties:

- Outstanding taste masking without delay in drug release (Figure 2)
- Superior moisture protection (Figure 3)
- Insoluble in the mouth, but readily soluble in the stomach
- Reliable functionality and quality
- Smooth texture and appearance
- Pleasant mouth feel and improved swallowability (Figure 4)
- Excellent film adhesion on the substrate
- High pigment load capacity
- Superb logo definition

EUDRAGIT® E PO ReadyMix makes registration easy:

- All ingredients are commonly used and have monographs in all major pharmacopeias
- Individualized regulatory support can be provided upon request
- EUDRAGIT® E PO polymer has been used in many commercial products for decades. IID data is available, and increased usage levels are supported by toxicological data

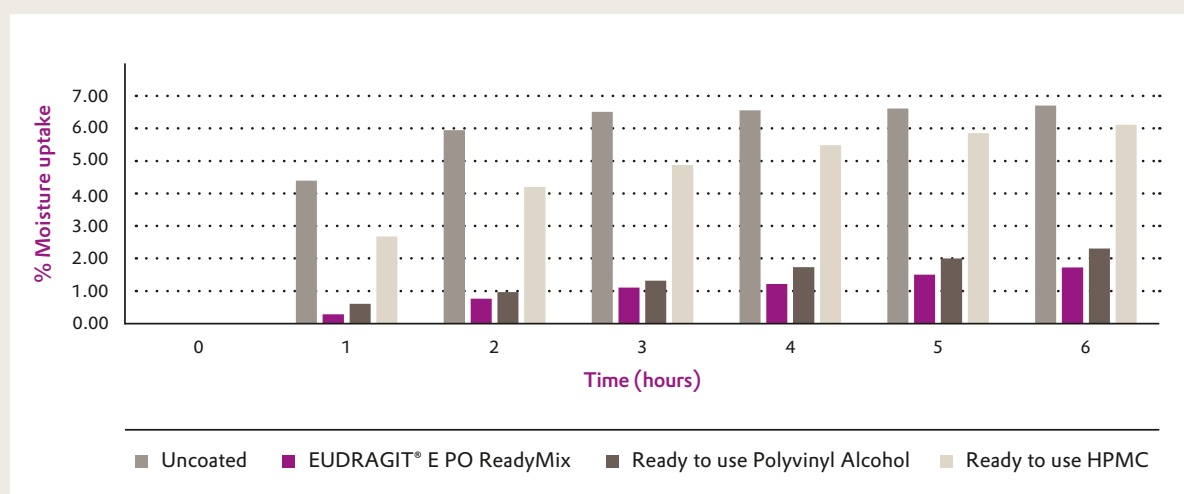
Figure 2: Bitterness sensor response



EUDRAGIT® E PO ReadyMix additionally provides the advantages of a ready-to-use product:

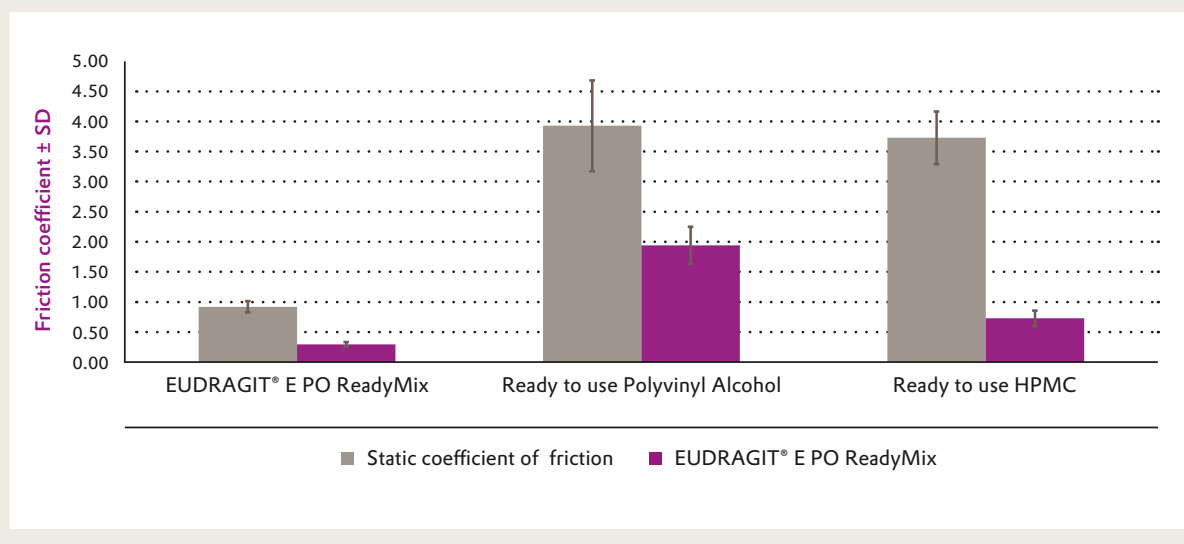
- Easy-to-prepare coating suspension: just add water and stir with a propeller mixer
- Faster coating process
- Lower costs from fewer preparation and weighing steps
- Minimized variation and potential for operator errors
- Reduced incoming testing
- Fewer raw materials to procure and lower inventory

Figure 3: Moisture uptake study at 40°C/75%RH – 6%w/w coated silica tablets



Superior moisture protection observed in tablets coated with EUDRAGIT® E PO ReadyMix when compared to uncoated tablets and tablets coated with other coating systems.

Figure 4: Swallowability study using EUDRAGIT® E PO ReadyMix



Coefficient of friction in EUDRAGIT® E PO ReadyMix found to be very low, indicating excellent swallowability performance as compared to other coating systems.



EUDRAGIT® E PO ReadyMix: Fast, reliable and tailored to your needs

Ingredients of EUDRAGIT® E PO ReadyMix for a standard formulation

EUDRAGIT® E PO

Sodium lauryl sulfate (SLS)

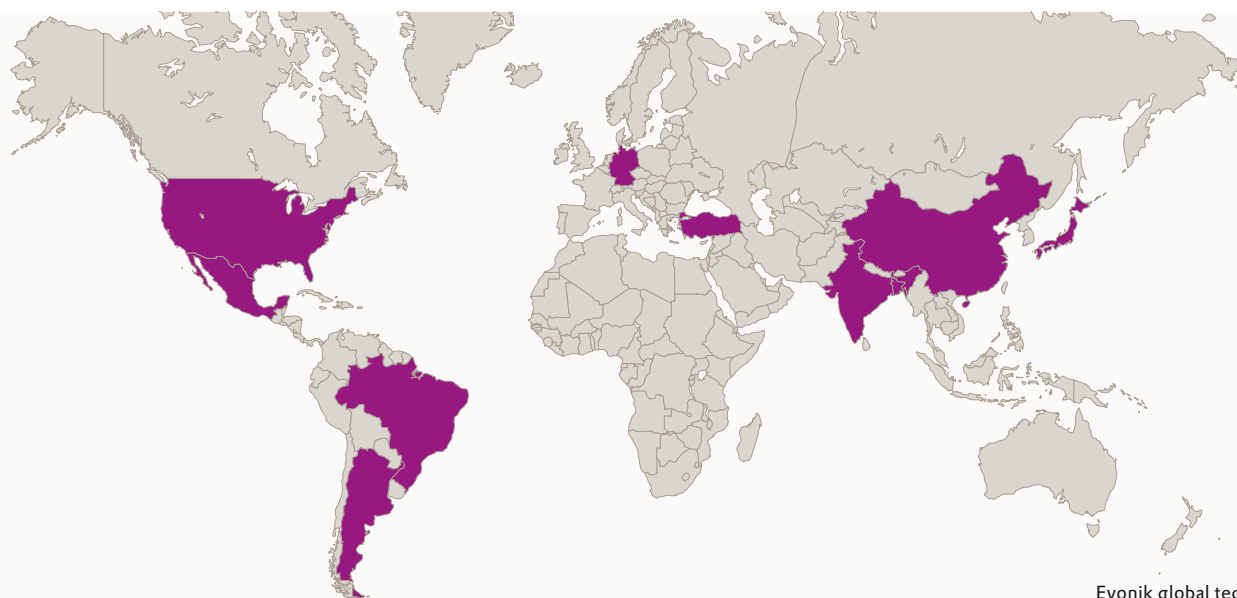
Talc

Silicon dioxide

Stearic acid

Optional ingredients can also be part of the ReadyMix depending on the tablet formulation

- Color pigments, e. g. iron oxides, aluminium lakes, natural colors
- Flavors and fragrances
- Others as needed



Evonik global technical centers

Meeting your individual requirements with EUDRAGIT® E PO ReadyMix

Get in touch with us to discuss your needs. We will provide you with an EUDRAGIT® E PO ReadyMix sample for your initial feasibility trials. If you need

assistance with the trials or your evaluation, our global technical service network is here to help.

EUDRAGIT® E PO ReadyMix has been developed in cooperation with BIOGRUND GmbH



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