

# Kollicoat<sup>®</sup> MAE:

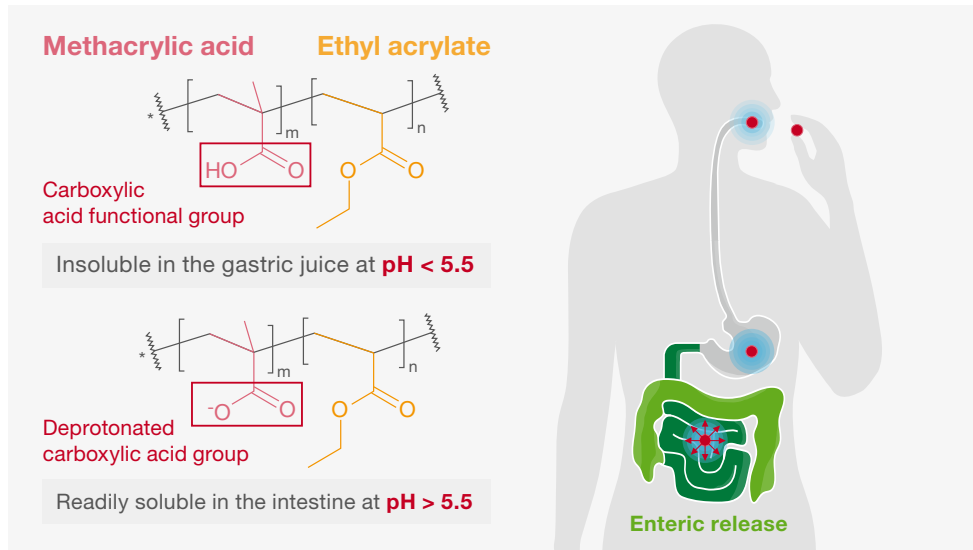
## A trusted choice for enteric film coatings

**BASF**  
We create chemistry

Gastric resistance is key to many patients for ensuring either targeted release in the intestine, protecting gastro-sensitive drugs, or for protecting the gastric mucosa from certain APIs.

Kollicoat<sup>®</sup> MAE (**M**ethacrylic **A**cid **E**thyl acrylate copolymer) delivers proven performance as a high-quality gastric-resistant film-coating polymer, ensuring formulation consistency and manufacturing efficiency.

The Kollicoat<sup>®</sup> MAE line meets the highest industry standards for performance, quality, and regulatory compliance, delivering reliable performance batch after batch.



### Kollicoat<sup>®</sup> MAE key benefits

- Reliable, versatile, and proven for enteric film-coatings:
  - Ensures effective gastric resistance for targeted drug delivery.
  - Rapid and predictable release in the intestine at pH > 5.5.
- Suitable for tablets, capsules, pellets, soft gels, and granules.
- Designed for smooth, efficient, and consistent film-coating application.
- Created to meet the performance expectations of established gastric-resistant coatings.



#### Protection of gastro-sensitive active ingredients

→ Duloxetine, lansoprazole, pantoprazole, esomeprazole, omeprazole, enzymes, peptides



#### Protection of gastric mucosa from irritative drugs

→ Acetylsalicylic acid, diclofenac sodium, donepezil, prednisolone, sodium valproate, mycophenolic sodium



#### Drugs targeted to release in the intestines

→ Tamsulosin, pancreatin and other pancreatic enzymes (e.g. trypsin, amylase, and lipase), omega 3 capsules (prevent „fishy“ reflux)

Kollicoat® MAE is available as a 30% aqueous polymer dispersion, as well as pre-neutralized and non-neutralized powder grades with varying particle sizes. While the dispersion offers the most straightforward application, the powder grades provide enhanced storage and transportation stability, as well as additional functionalities.

### Polymer dispersion

Kollicoat® MAE 30 DP

- A 30% aqueous polymer dispersion optimized for efficient enteric film coating applications.
- “Ready-to-disperse” for simplified handling and preparation.
- Recognized for low tackiness, supporting fast process with reduced interruptions.
- Equivalent to the other market dispersion grades, ensuring seamless formulation integration.

### Polymer powder

Kollicoat® MAE 100-55

Kollicoat® MAE 100-55 Fine

- Versatile powder grade suitable for both aqueous and organic coating formulations.
- Requires neutralization for redispersion in water.
- Fine grade offers equivalent PSD to the standard market products.
- Regular coarse particle grade with enhanced flow and reduced dusting. Ideal for HME process.

### Pre-neutralized powder

Kollicoat® MAE 100 P

- Innovative pre-neutralized powder grade for aqueous coating.
- Ready-to-redisperse for faster, more efficient preparation.
- Pre-neutralized with NaOH—eliminates the need for hazardous handling, enhancing workplace safety.
- Expands formulation possibilities, including applications in sustained-release matrixes of zero-order release.

## Kollicoat® MAE at a glance:

Attributes	Kollicoat® MAE 30 DP	Kollicoat® MAE 100 55 Kollicoat® MAE 100 55 Fine	Kollicoat® MAE 100 P
<b>Regulatory compliance and compendial name</b>	<b>USP-NF:</b> Methacrylic Acid and Ethyl Acrylate Copolymer Dispersion <b>Ph. Eur.:</b> Methacrylic Acid – Ethyl Acrylate copolymer (1:1) dispersion 30 percent <b>JPE:</b> Methacrylic Acid Copolymer LD	<b>USP-NF:</b> Methacrylic acid and Ethyl Acrylate Copolymer <b>Ph. Eur.:</b> Methacrylic Acid – Ethyl Acrylate copolymer (1:1), Type A <b>JPE:</b> Dried Methacrylic Acid Copolymer LD	<b>USP-NF:</b> Partially-Neutralized Methacrylic Acid and Ethyl Acrylate copolymer <b>Ph. Eur.:</b> Methacrylic Acid – Ethyl Acrylate copolymer (1:1), Type B
<b>CAS number</b>	25212-88-8	25212-88-8	25212-88-8
<b>Appearance</b>	Milky-white or slightly yellowish liquid of low viscosity with a faint characteristic odor	White redispersible powder with a faint characteristic odor	White redispersible powder with a faint characteristic odor
<b>Retest period</b>	24 months	36 months	36 months
<b>Packaging and article numbers</b>	25 Kg PE drum ART: 50893396	20 Kg box with PE inliner 100-55: ART: 50435436 100-55 Fine: ART: 50655762	20 Kg box with PE inliner ART: 51209751
<b>Storage temperature</b>	5 to 25 °C	Below 25 °C	Below 25 °C

Discover how **Kollicoat® MAE** can optimize your enteric film-coating formulations. Leverage **ZoomLab®** to accelerate drug development and **connect with our experts** for tailored formulation and process support.



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