

## Innovative Coating Material for tablets, pellets, granules and more.



[www.marcoat.com](http://www.marcoat.com)

### APPLICATIONS

- Masks taste and odor
- Acts as a seal coating
- Prevents core “bleed through”
- Improves stability
- Prevents moisture transmission
- Enhances tablet elegance
- For controlled or immediate release

### ADVANTAGES

- Organic solvent free
- Compatible with other coating systems
- Widely accepted ingredient
- Provides a high gloss film
- Good adhesion
- Low tablet to tablet cohesion
- Low viscosity

### DESCRIPTION

The quality and specifications of the natural polymer shellac depend on the raw material as well as the process used for refining. Marcoat is based on a dewaxed and decolorized shellac (dewaxed orange shellac) refined in a solvent extraction process. During this process, the color is reduced by activated carbon. The chemical structure of shellac is not modified by this process. Marcoat is a clear, slightly amber and very stable aqueous solution.

#### PHYSICAL PROPERTIES @ 25°C

**Appearance:** Clear amber solution  
**Color - Hunter LAB value:** L value > 30  
**Odor:** Characteristic sweet odor  
**Solids:** Dewaxed Orange Shellac NF  
**Solid Content:** 25% ± 1% by weight  
**Specific Gravity:** 1.04 ± 0.03  
**pH:** 7.3 ± 0.3  
**Viscosity (25°C):** #3 Zahn, < 20 sec  
**Flash point:** no flash point, < 1% VOC's

#### INGREDIENTS

##### MarCoat 125

Shellac ammonium salt	68308-35-0
Methyl Paraben	99-76-3
Propyl Paraben	94-13-3
Isopropyl Alcohol	67-63-0

##### MarCoat 125N

Shellac ammonium salt	68308-35-0
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### INSTRUCTIONS

Marcoat can be used as supplied or diluted with demineralized water to the desired concentration. Additives, fillers, pigments, plasticizers or other resins or polymers (Methyl cellulose, HPMC, HPC, PVP) can be added or used in formulations due to the good compatibility.

Marcoat can be applied in side vented or perforated pans or fluidbed coaters. Coating and drying conditions depend on the equipment used. Due to quick filmbuilding and drying, short processing times are possible.

Marcoat can be used as a filmformer for edible printing inks, laminating inks, paper coatings, etc.

**Marcoat 125** contains preservatives. **Marcoat 125N** does not contain preservatives

#### STORAGE

Preferred storage conditions: Cool environment in a tightly closed container. Freeze – thaw stable.  
**Packaging:** 5 gallon plastic pails  
 55 gallon plastic drums  
**Shelf life:** from date of manufacture:  
 Marcoat 125 - 6 months  
 Marcoat 125N - 3 months

#### CLEANING

A 10% aqueous sodium carbonate solution is recommended for stainless steel equipment. If necessary, the solution can be applied at a temperature of 40–50°C.



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