



## Advantages

- ▶ Environmentally-friendly, ultra-fast coating process thanks to 100% solvent-free UV paint technology.
- ▶ Excellent adhesion to ABS, PC, PP and other substrates.
- ▶ Maximum yield due to 100% solids and recyclability.
- ▶ Immediate fault detection; as a result, significant reduction in defective parts.
- ▶ The finest brilliance combined with the highest mechanical and chemical resistance.

## 100% UV = 100% satisfaction with cosmetic packaging

VOC-free UV paint system combined with metallisation for the highest aesthetic demands on cosmetic packaging

Today, manufacturers of cosmetic packaging expect millions of painted parts with scratch-resistant surfaces and a perfect mirror finish that is achieved in an efficient and environmentally-friendly process. Is this possible?

Yes, the solution is a 100% VOC-free UV paint system and metallisation.

Efficiency comes from process speed and high reproducibility with low space requirements.

100% UV paints, applied by hot spraying, are levelled in no more than 15 seconds and cure in 2-5 seconds when exposed to special UV lamps. Long drying ovens and explosion-proof equipment are no longer necessary. Plastic elements are coated in-house as standard on extremely compact coating lines at speeds of 8 – 10 m/min. After a few minutes of curing under UV light, the coated parts are immediately ready for packaging.

By adding special transparent dye solutions, we provide high-gloss clear paints in a very wide range of colours. They can be printed or embossed according to customer specifications using special settings of the coating systems.

## Description of coating process

### Objects coated

Cosmetic packaging, e.g.: caps, rings, closures, flacons

### Material

ABS, PP, PC, Surlyn and others

### Coating line

Hot spraying with compressed air, automatic coating lines, parts are on spindles or rails

### Coating process

- ▶ Pretreatment: ionisation, for PP flame treatment or special adhesive primer
- ▶ UV primer/undercoat
  - Paint temperature 60 – 80 °C
  - Nozzle 0.3 – 0.5 mm (max. 8 mm)
  - Levelling zone 10 – 20 s (IR optional)
- ▶ UV drying 3 – 5 s  
Hg emitter, output ≥ 120 W/cm
- ▶ Metallisation (Al, Cu, stainless steel) or coating with top coat
  - Paint temperature 60 – 80 °C
  - Nozzle 0.3 – 0.5 mm (max. 8 mm)
  - Levelling zone 10 – 20 s (IR optional)
- ▶ UV drying 3 – 5 s  
Hg emitter, output ≥ 120 W/cm

## Properties/Approvals

- ▶ Loreal QAC-MC-828 F  
Avon  
Estée Lauder  
and many other company standards
- ▶ Resistance to filled product  
Fragrances/perfumes and creams

## Materials Used

- ▶ UV metallising primer  
EvoPrime 480 Series - 100% UV paint
- ▶ UV-silvering coat  
EvoDecor 470 Series – 100% UV top coat
- ▶ Optional – EvoPrime 322  
as bonding agent for PP

## Technical data (example)

### EvoPrime 480, EvoDecor 470

Viscosity at delivery	25 – 35 s 4 mm DIN 53211, 20 °C
Weight solids	100%
Volume solids	100%
Density	1.08 g/cm <sup>3</sup>

