



# Coathylene® Polymer Powders

Thermoplastic powder additives for structured  
paint and varnish formulations



Car park flooring using Coathylene® as a  
structuring agent



Yacht rear deck flooring using  
Coathylene® as a anti-slip agent

**Coathylene®** powder additives can be used in  
**Paints and Varnishes** for multiple purposes:

- **Anti-slip agent**
- **Structural effects**
- **Satin and matt finishes**

Typical applications for **Coathylene®** powder are:

- **Road marking**
- **Outdoor/Indoor structured paint**
- **Roofs and underbodies for cars**
- **Wood & metal furniture**
- **Metal casings, electrical boxes**
- **Marine paint, ship decks**
- **Swimming pools and surroundings**
- **Garage floors & and other heavy duty industrial flooring**

The low specific gravity of **Coathylene®** allows particles to migrate to the surface of the painted area; therefore, in general, **the addition level is between 2 and 10 %** based on the dry content of the paint or varnish.

**Coathylene®** can be easily dispersed with standard paint processing equipment.

# Coathylene® Polymer Powders



Industrial epoxy flooring using  
Coathylene® as a anti-slip agent



Furniture paint using Coathylene®  
as a matifying agent

## Application

- Add by simply stirring into the liquid paint, (sprinkling not necessary)
- Easy & even dispersion
- Finished paint easy to apply (reduced application time)
- No modification or reaction with paint formulations

## Surface Characteristics

- Wide choice of structured effects possible
- Excellent anti-slip or structured effect thanks to **Coathylene®** particles “floating” on the paint surface
- High quality visual aspect thanks to even distribution on the surface
- Significant reduction of glare from reflected sunlight
- Hides surface imperfections on coated object

## Mechanical Characteristics

- Excellent abrasion and scratch resistance
- Significantly improved impact resistance
- No chipping

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## Overview of the most common grades used in paint applications\*:

Grade	Polymer	Melting point (°C)	Particle Size (µm) max.	Particle Size (µm) X <sub>50</sub>	Main applications
Coathylene® PC 0580	PP	165	90	55 -75	Structured paint
Coathylene® PD 0580	PP	165	150	80-120	Structured paint
Coathylene® PM 0580	PP	165	400	230-300	Industrial epoxy flooring, road marking paint
Coathylene® NM 6454	HDPE	131	400	200-250	Industrial epoxy flooring, road marking paint
Coathylene® NB 6454-F	HDPE	131	90	24-36	Structured paint
Coathylene® NC 6454-F	HDPE	131	125	60-90	Structured paint
Coathylene® HA 1681	LDPE	105	75	12-22	Structured paint, matt & satin finish
Coathylene® HX 1681	LDPE	105	35	10-15	Structured paint, matt & satin finish
Coathylene® GL 2561	PLA	170	315	180-270	Structured paint, Anti-slip

## Examples of paint applications with Coathylene®:

### Heat stove paints (e.g. based on Alkyd Melamine)

Due to their relatively high melting points (165°C and 135°C respectively), **Coathylene®** powders from either polypropylene (PP) or high density polyethylene (HDPE) are the most suitable for these kinds of paint, since they resist stoving at 180°C for up to 20 minutes without changing the structure effect.

### Cold drying paints (e.g. based on polyurethane or epoxy resins)

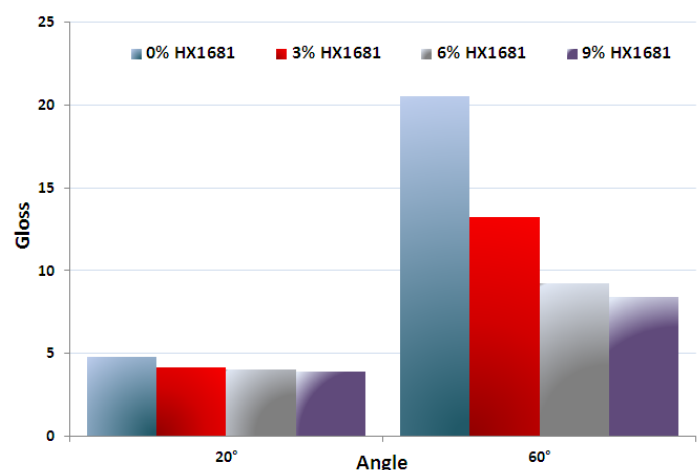
**Coathylene®** powders from high or low density polyethylene or polypropylene are suitable for these applications, since drying temperature is not a problem. Due to their round particle shape, the paint can easily be applied by brush, roller, or spray gun.

Please contact us for a grade recommendation for your specific application

### Varnishes (e.g. based on nitrocellulose)

Ultrafine **Coathylene®** powders, with particle sizes below 35µm are recommended as matting agents for varnishes.

Gloss measurement of satin-finish paint on wood



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Road marking using Coathylene® as  
an anti-slip agent

Axalta Polymer Powders offers a wide range of powder coatings and micro-powder additives based on many different polymer chemistries. Do not hesitate to contact us to discuss your specific requirements.