

## General Description

ADDITOL® P 965 is an aromatic urethane adduct crosslinking agent for hydroxylated polyester resins for the manufacture of polyurethane powder coatings. Resins recommended for use with this product include following grades at indicated ratios:

CRYLCOAT® 2839-0 / ADDITOL® P 965 = 82/18

CRYLCOAT® 2845-0 / ADDITOL® P 965 = 88/12

CRYLCOAT® 9292-0 / ADDITOL® P 965 = 85/15

## Aromatic Urethane Adduct

### Product Specification

	Limits
Total unreacted NCO (%)	Max. 0.8

### Other Properties

	Typical value
Glass transition (°C)	Approx. 51
Total -NCO content (%)	16-17

### Starting Formulation

Component	Weight (%)
CRYLCOAT® 9292-0	48.0
ADDITOL® P 965	9.0
ADDITOL® P 896	3.0
Titanium dioxide	29.0
Barium sulfate	10.5
Benzoin	0.5

### Extrusion & Application Conditions

Extrusion	
Extruder	Twin screw
Speed	200 rpm
Torque	40 ± 5 %
Temperature	100 to 110 °C
Application	
Application	60 micrometer film on steel panel
Spray Gun	Output voltage: 60 kV
Curing	10 min @ 180° C metal temperature 20 min @ 170° C metal temperature

### Film Properties

Test	Result
Gloss @ 20°/60° (%)	80/93
Direct/reverse impact (kg. cm or in. lbs.)	160/160

### Shelf Life

Under normal storage conditions (≤25°C), the shelf life of the resin will be 24 months from date of manufacturing. For product older than 24 months, it is recommended to check the acid value and the viscosity every year.

### Safety & Environmental Protection

For more information, please refer to the Material Safety Data Sheet.

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