

Product Range

VESTAGON[®]
Crosslinking Agents
for Powder Coatings



vesta**ig**on

VESTAGON® Pioneers in powder coatings

Evonik played an intensive role in the development of powder coating technology from the very beginning, and today produces a number of different raw materials which are used by powder coating manufacturers worldwide.

Close orientation to both market trends and customer requirements is the guiding force for our product development.



Crosslinking agents for light stable and weather resistant powder coating systems

Hydroxyalkylamide-systems

Product	Supplied form	Characteristics	Remarks
VESTAGON HA 320	Coarsely ground	β -Hydroxyalkylamide OH-Equi.: ~84g/Eq m.p.: ~120°C	Highly reactive, high functionality Compositions of powder coatings using certain polyesters are covered by Canadian (No. 1 330 682) patent. The application of above patent in the country Canada requires the consent of the patent holder. However, Evonik Degussa maintains a license from the patent holder to provide crosslinker to these applications.
VESTAGON EP-HA 376* NEW	Coarsely ground	β -Hydroxyalkylamide OH-Equi.: ~99g/Eq m.p.: ~105°C	Crosslinker for architectural polyester powder coatings with improved direct fired gas oven stability compared to HA 320 Compositions of powder coatings using certain polyesters are covered by Canadian (No. 1 330 682) patent. The application of above patent in the country Canada requires the consent of the patent holder. However, Evonik Degussa maintains a license from the patent holder to provide crosslinker to these applications.

PUR-systems

Product	Supplied form	Characteristics	Remarks
VESTAGON B 1065	Pellets	ϵ -Caprolactam-blocked polyisocyanate NCO-content: 10.1-10.8% bwt T_g : \sim 51°C	For very smooth coatings, linear
VESTAGON EP-B 1360	Pellets/Flakes	ϵ -Caprolactam-blocked polyisocyanate NCO-content: 11.2-12.2 % bwt T_g : \sim 44 °C	For coatings with excellent durability and chemical resistance combined with more flexibility and lower cure compared to B 1530
VESTAGON B 1400	Pellets/Flakes	ϵ -Caprolactam-blocked TMP-polyisocyanate NCO-content: 12.5-14.0% bwt T_g : \sim 52°C	For coatings with good chemical resistance, excellent choice for most industrial applications
VESTAGON B 1530	Pellets/Flakes	ϵ -Caprolactam-blocked polyisocyanate NCO-content: 14.8-15.7% bwt T_g : \sim 48°C	For coatings with excellent durability and chemical resistance
VESTAGON EP-R 4030*	Coarsely ground	Special crystalline polyester OH-value: 25–35 mg KOH/g m.p.: \sim 110 - 120 °C	In combination with OH-polyesters for very smooth, matte PUR coatings; flexibilizer for super durable PUR coatings

PUR-systems - blocking agent free

Product	Supplied form	Characteristics	Remarks
VESTAGON BF 1320	Coarsely ground	Uretdione polyisocyanate adduct NCO-content: 13.5–15.0% bwt T_g : \sim 75°C	Advantage of no blocking agent, highly reactive, higher functionality than VESTAGON BF 1540
VESTAGON EP-BF 1321* NEW	Coarsely ground	Uretdione polyisocyanate adduct NCO-content: 14.0–15.5% bwt T_g : \sim 77°C	Improved melt viscosity compared to BF 1320. Particularly suitable for Heat Transfer Printing application and Low Temperature Cure PUR
VESTAGON EP-BF 1350*	Coarsely ground	Uretdione polyisocyanate adduct NCO-content: 12.5–14.0% bwt T_g : \sim 61°C	Yields polyurethane coatings with Class A surfaces
VESTAGON BF 1540	Granules	Uretdione polyisocyanate adduct NCO-content: 15.2-17.0% bwt T_g : \sim 84°C	Uretdione with high isocyanate content; good choice for standard, non-emissive polyurethanes
VESTAGON EP-BF 9030* NEW	Granules	Uretdione polyisocyanate adduct NCO-content: 11.5–13.0% bwt T_g : \sim 50°C	Low viscosity crosslinker for novel Low Temperature Cure PUR coatings, min. 120° C at 30 minutes, good surface levelling, no blocking agent
VESTAGON EP-SC 5050* NEW	Powder	Catalyst adsorbed onto silica N-content: 2.2-2.7 % bwt	Essential for Low Temperature Cure uretdione-based powder coating system; also for type PMA/cyclic amidine matted hybrid systems

*EP = Experimental Product

Tg = Glass transition temperature (typical value)

m.p. =Melting point / range (typical value)

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* = registered trademark of Evonik Degussa GmbH

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