

## Baxxodur<sup>®</sup> EC 303

### Amine curing agent for the epoxy industry

July 2018 | [Data Sheet](#) | Replaced Version October 2013

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® = registered trademark of BASF SE

#### System description

Baxxodur EC 303 is a polyether amine based curing agent with a very long pot life.

#### Features

- Excellent flexibility
- High peel strength
- Light color

#### Applications

- Composite
- Adhesive
- Epoxy toughener

#### Characteristics (typical values)

##### Curing agent

Chemical properties	Value	Unit	Method
Water	max. 0.25	[%]	DIN 51777
Color	max. 25	APHA	DIN EN 1557
Refractive Index at 20 °C	1.4512	-	DIN 51423
Density at 20 °C	0.9943	[g/cm <sup>3</sup> ]	DIN 2811-3
Amine Value	~ 56	[mg KOH/g]	DIN 16945
Viscosity at 20 °C	~ 273	[mPa*s]	DIN 3219

**Mixing**  
(parts by weight)

Component	Parts by weight
Standard Epoxy Resin based on Bisphenol-A (EEW = 185 g/Eq)	100
Baxxodur® EC 303 (AHEW = 501 g/Eq)	271

**Processing**  
(typical values)

Mixing Properties	Value	Unit	Test method
Viscosity of mixture at 23°C	583	[mPa*s]	DIN EN ISO 3219
Open time at 23°C <sup>1</sup>	1055	[min]	DIN 16945 <sup>2</sup>
Time to reach 6 Pa*s at 23°C	3188	[min]	DIN 16945 <sup>2</sup>
Time to reach 6 Pa*s at 45°C	3367	[min]	DIN 16945 <sup>2</sup>
Time to reach 6 Pa*s at 75°C	730	[min]	DIN 16945 <sup>2</sup>
Gel point at 70°C	1175	[min]	ASTM D4473 <sup>3</sup>
Gel point at 90°C	398	[min]	ASTM D4473 <sup>3</sup>
Gel point at 110°C	150	[min]	ASTM D4473 <sup>3</sup>

<sup>1</sup> Time to double the initial mix viscosity

<sup>2</sup> Anton Paar rheometer; plate-plate diameter: 25 mm; gap: 1mm; shear rate of 100 1/s

<sup>3</sup> Anton Paar rheometer; plate-plate diameter: 25 mm; gap: 1 mm; oscillation

*Additional technical data for this product is available upon request.*

**Contact**

E-Mail: [info.intermediates@basf.com](mailto:info.intermediates@basf.com)

Internet: [www.intermediates.basf.com](http://www.intermediates.basf.com)

**Note**

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