



DEX-A100

Data sheet
Issue 04/23

DEX-A100

Epoxy hardener DEX-A100

Product data

Description

DEX-A100 is a low viscosity, solvent-free cashew phenol modified phenol amine curing agent, mainly used in epoxy coating systems. The good properties include low viscosity, fast curing, low substrate surface treatment requirements, high glass transition temperature, good bonding strength and excellent chemical resistance. Even on wet or untreated substrate surfaces, the adhesion is very good. What's more, the excellent water resistance and corrosion resistance enable WB-A100 very suitable for heavy anti-corrosion coatings, marine coatings and so on.

Specification

Appearance	Reddish brown liquid
Color (Gardner)	≤ 17
Amine value (mgKOH/g)	490-550
Viscosity (25°C, cP · s)	2000-3000
Density (25°C, kg/L)	0.9 6-0.99
Volatile (%)	≤ 4.0
Flash point (°C)	107.2
AHEW	81
Recommended PHR (Liquid resin, EEW=190) 70	30-40

Perfomance

- Fast curing and longer operation life under the normal and low temperature. It also play the role even temperature at 0°C.
- Wide construction blending ratio.
- Good chemical resistance.
- Good compatibility with multiple solvents and reins.
- Excellent corrosion resistance.
- Good adhesion even on the material surface with low surface treatment.
- Good moisture resistance in curing.
- Solvent free.
- Based from natural renewable raw material.

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China
Jiangsu, Changzhou
Tel +86 0512 63659101

sales@dexresin.com
info@dexresin.com

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Application Recommendation

DEX-A100 is suitable for coatings with high-solid or solvent-free, low surface treatment requirements, like marine coatings, industrial maintenance coatings, protective coatings and epoxy floor coatings. The product has excellent chemical resistance and can contact with drinking water, especially suitable for concrete or metal can lining and pipeline coatings. It can be even used on wet and poorly treated substrate surfaces in cold and wet conditions. Due to fast curing and high hardness, the product is quite suitable for the fields with short construction period. Its wide curing temperature range and loose blending ratio expands the application range for coatings.

Application properties

Formulation	1
Liquid epoxy resin(EEW =190)	100
DEX-A100	40
Gel time @25°C (min)	30-55
Thin film set times , 8 mils (200 micron)	
@25° C hrs dry to touch dry hard dry through)	1.5 / 3.5 / 4.5
@5°C hrs , dry to touch dry hard dry through)	4 / 13 / 19
@0°C hrs , dry to touch dry hard dry through)	- / 19 / 30

Stability and Storage

PAA curing agent will absorb moisture and carbon dioxide when stored in open containers, which may result in increased viscosity, discoloration and reduction of reactivity. These products should be kept tightly sealed in their original containers when not in use, and stored in a cool, dry place.

Expiration date

- 12 MONTH

Packing

- 200 KG NET IN IRON DRUM.

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