

ABAHARD 2100L LOW-VISCOSITY PHENALKAMINE CURING AGENT

DESCRIPTION

ABAHARD 2100L is a modified Phenalkamine based low viscosity epoxy curing agent. This curing agent is designed to cure broad band of epoxy resins especially at low temperatures, high humid conditions and even under water. It's specially designed low viscosity characteristic makes it as an appropriate element to be used with broad band of either solvent free and solvent based epoxy resins. This curing agent is used in anti-corrosive applications especially in marine and industrial environment.

FIELD OF APPLICATION

- Under-water epoxy coating and putty
- Industrial maintenance, marine and pipe coatings
- Pipe and tank linings

ADVANTAGES

- Excellent adhesion to metal and concrete
- low viscosity and free flowing property
- Suitable pot-life at both ambient and low temperatures
- Long pot life under water
- Moisture & low temperature tolerant during cure
- Good resistance to chemicals, salt water and superior corrosion resistance

SPECIFICATION

Appearance	Visual	Reddish brown liquid
Color	ASTM D1544-04	17 G
Viscosity @ 25°C	ASTM D2196-05	1500-4000 cP
Pot life @ 25°C	-	~ 35 min
Non – volatile	-	100%

TYPICAL PROPERTIES

Amine value	DIN 16945	290-320 mg KOH/g
AHEW	-	120-130
Mixing ratio with EPON 828 (EEW = 190 g/eq)	-	100:60
Glass transition temperature	DIN 11357	50 °C



Curing properties: Dry environment

Thin film set time @ 25°C	ASTM D5895	6 hrs
Full cure @ 25°C	ASTM D5895	1 week
Thin film set time @ 5°C	ASTM D5895	12 hrs
Full cure @ 5°C	ASTM D5895	2 weeks

Curing properties: Under water

Thin film set time @ 25°C	ASTM D5895	12 hrs
Full cure @ 25°C	ASTM D5895	2 weeks

PACKAGING

The material is packed & delivered in 200 kg drums.

STORAGE & SHELF LIFE

Shelf life: 12 months in unopened original package

Storage condition: should be protected from frost, direct sunlight and moisture. Keep containers in the temperature range between +10°C and +30°C.

HEALTH & SAFETY

This product is Flammable. Keep away from heat and open flame .Keep container closed .Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to the health:

- 1-Circulate adequate fresh air continuously during application and drying.
- 2-Use fresh air masks and explosion proof equipment.
- 3- Prohibit all flames, sparks, welding and smoking.

MSDS is available at ABADGARAN website.

TECHNICAL SERVICE

The ABADGARAN INTERNATIONAL GROUP Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

All data presented in this technical datasheet are based on our last researches in ABADGARAN CONSTRUCTION CHEMICALS laboratories and are just as a guide for choosing appropriate material. Therefore users should conduct a sufficient investigation to establish the suitability and conformity of any product for intended uses.

