

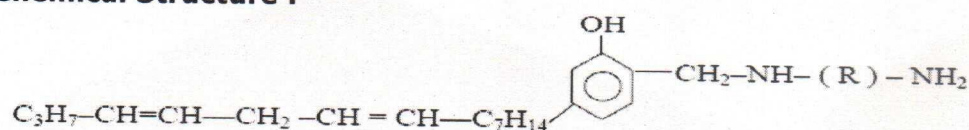
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PHK - 104 LV PHENALKAMINE EPOXY HARDENER

Phenalkamine **PHK - 104 LV** is Mannich base, a reaction product of distilled cashew nutshell liquid & polyamine.

Chemical Structure :



Features :

- Very good compatibility with
 - 1) Epoxy resin based on bis-phenol A
 - 2) Epoxy resin based on bis-phenol F
 - 3) Epoxy resin based on phenolic novolacs
- Excellent rapid cure even at low temperatures
- Good chemical, solvent & water resistance
- Non-critical mixing ratio
- Workable pot life
- Very good flexibility
- Excellent curing under humid as well as damp conditions
- Good adhesion to mechanically cleaned surfaces
- Superior corrosion resistance

Applications :

- Medium to high solid coatings
- Flooring & Construction
- Marine & Industrial maintenance coatings
- Tank linings
- Adhesives
- Surface tolerant primers for metallic substrates

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Typical Properties :

Sr. No.	Property	Unit	Specification
1	Appearance	Visual	Reddish Brown Viscous Liquid
2	Colour	Gardner	16 Max
3	N.V.M	%	95 ± 1
4	Amine Value	mg KOH / g	300 - 340
5	Viscosity @25° C	Ps	15-30 ps
6	Density @25° C	Gm / cm ³	0.98 - 1.00
7	Flash point (Closed cup)	°C / °F	81 / 178
8	AHEW	g / eq.	125
9	Recommended PHR (EEW - 190)	----	65 - 80

Curing Properties :

Formulation :

Liquid epoxy resin (EEW - 190) 100

PHK - 104 LV 65

Optimum curing schedule 7 days at 25° C

Gel time 100g @ 25° C 30 - 40 min

B.K Drying Recorder, set time, (200 microns) 8 mil
(Liquid Epoxy resin EEW - 190)

@ 25° C 8 - 10 hrs

@ 5° C 28 - 38 hrs

@ 0° C -



Om Shiv Products

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Storage & Stability :

Hardener **PHK – 104 LV** should be stored in a cool dry place at 18 - 25 ° C in the sealed containers to achieve shelf life of minimum one year. Product can react with moisture & carbon dioxide in the air. This may result in increased viscosity & reduced activity.

Handling & Precaution :

May be harmful if ingested or absorbed through the skin & can cause sensitization. Will cause severe inflammation in contact with eye & skin. Wash thoroughly after handling. Adequate ventilation is essential during application. Containers should be tightly closed when not in use or during transportation. Do not inhale mist or vapours. It is recommended to use gloves, safety glasses & protective clothing for safe handling.

First AID :

In case of

Inhalation : Remove to fresh air & give oxygen if breathing is difficult

Ingestion : Give plenty of water. Do not induce vomiting. Contact a physician

Contact with Eyes : Flush eyes with plenty of clean water for at least 15 minutes

Contact with skin : Immediately wash with mild soap & water

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