



ATUL LIMITED

Polymer Division
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LAPOX[®] HARDENER K - 41

Aromatic amine adduct

HARDENER K - 41 is an aromatic amine adduct, based on 4 : 4' - diamino diphenyl methane. Even though the raw material is a suspected carcinogen, epoxy systems cured with this hardener are safe to use. In fact, linings based on this type of curing agents have been extensively used in potable water, beer and fruit juice storage tanks. In combination with **Hardener K 42**, which is an accelerated aromatic amine adduct, highly chemical resistant - solvent-free coating and flooring systems can be developed. Systems cured with this hardener have poor colour stability.

Typical Properties

| | | |
|--------------------------|----------------|--------------------|
| Appearance | | Dark Liquid |
| Viscosity at 25oC | mPa.s | 3800 - 5800 |
| Solids content | % | 100 |
| Colour- | Gardner | 18 max. |
| Amine Value | eq/kg | 4.7 - 5.1 |

Hardener K 41 is usually employed together with **Hardener K 42** with standard Bis - A epoxy resin (epoxide equivalent : 182 - 192) at 60 phr (combined). Since **Hardener K - 41** is slow curing and **Hardener K - 42** is fast curing, the two can be mixed together to obtained the pot life and curing time desired. Typical combinations are as follows:

| | (1) p.b.w. | (2) p.b.w. | (3) p.b.w. |
|------------------------------------|-------------------|-------------------|-------------------|
| Lapox[®] B 11 | 100 | 100 | 100 |
| Hardener K - 41 | 50 | 45 | 30 |
| Hardener K - 42 | 10 | 15 | 30 |
| Reactivity | Low | Medium | High |
| Pot life at 30^oC | 120 min | 90 min | 45 min |
| * p.b.w. = Parts By Weight. | | | |

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MUMBAI OFFICE: Contractor Bldg, Ramjibhai Kamani Marg, Ballard Estate, Mumbai - 400 001.
Phone : (9122)2265 6672/3346/3348,22612163. Fax : 2261 5267/ 3911. Email : po@atul.co.in

HEAD OFFICE : P.O. Atul. Dist, Valsad, Gujrat (India) 396 020.
Phone : 02632 233 621/622/204,253 036. Fax : 026322 33 639. Email : po@atul.co.in