



ATUL LIMITED

Polymer Division
A MEMBER OF LALBHAI GROUP

LAPOX HARDENER K - 42

Aromatic amine adduct

HARDENER K - 42 is an accelerated aromatic amine adduct, based on 4 : 4' - diamino diphenyl methane. Even though the raw material is a suspected carcinogen, epoxy systems cured with these hardeners 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 41**, which is also an aromatic amine adduct, highly chemical resistant solvent-free coatings and flooring systems can be developed. Systems cured with this hardener have poor colour stability.

Typical Properties

Appearance	Dark Liquid	
Viscosity at 25°C	mPa.s	15,000 - 21,000
Solids content	%	100
Colour	Gardner	18 max
Amine Value	eq/kg	4.4 - 4.8

Hardener K 42 is usually employed together with **Hardener K 41** 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 obtain 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 °C	120 min	90 min	45 min

* p.b.w. = Parts By Weight.

All recommendations for use of our products, whether given by us in writing, verbally, or to be implied from the results of tests carried out by us are based on the current state of our knowledge. Although the information contained in this sheet is accurate to the best of our knowledge, no liability can be accepted in respect of such information and no warranty or conditions are intended in respect of the product described as the conditions of application are beyond our control.

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