


**Aditya Birla Chemicals (Thailand) Ltd. (Epoxy Division)**
**EPOTEC YDPN 638X-80**
**Description**

Epotech YDPN 638X-80 is a solution of a semi-solid phenol novolac based epotech YDPN 638 multifunctional epoxy resin in xylene. Multifunctional epoxy novolac resins are useful in improving the performance of cured epoxy resin systems particularly in terms of elevated temperature resistance and chemical resistance. These resins also help in increasing curing speed and offering more hardness to the cured film. Epotech YDPN 638 is a semi-solid resin and is difficult to use as is owing to its non-flowability at ambient temperatures and hence invariably converted to solution form for ease of handling, processing and application.

**Applications**

- Chemical resistant coatings
- Tank linings
- Marine paints
- Composites

**Specification**

Appearance	Visual	Clear, Light yellow liquid
Colour	ASTM D 1544-04	2.0 max
Epoxy Equivalent Weight*	ASTM D 1652-04	175 - 182 g/eq
Viscosity** @25°C	ASTM D 2196-05	200 - 600 cP
Non-volatiles	TEC-AS-P-012	79 – 81 %

\* Based on solids

\*\* Brookfield viscosity

**Typical properties \***

Epoxide Value	ASTM D 1652-04	5.49 – 5.71
Density @25°C	ASTM D 1475-98	1.11 g/cc
Water content	ASTM E 203-01	0.1 % max.
Flash point <sup>#</sup>	ASTM D 93-08	30°C

\* = Typical properties are indicated for information only

# = Based on Xylene

**Packing** Epotec YDPN 638X-80 is packed and delivered in steel drums, 220 kg per drum as a standard pack.  
Other packs are available on request.

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**Storage** Epotec YDPN 638X-80 resin should be stored in dry and cool conditions and kept closed in original container. Under these conditions, it has a storage life of at least one year from the date of manufacturing. Due to solvent content, the solutions are moderate skin irritants. Operators are advised to use personal protective equipment to avoid skin contact with the materials, and make use of general mechanical ventilation and local exhaust. Epotec YDPN 638X-80 should be kept away from sources of ignition.

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**Handling** Please refer to the MSDS of the product for more instructions on safe storage and handling of epotec YDPN 638X-80.

**Disclaimer**

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, no liability can be accepted in respect of such information. We warrant only that our product will meet the designated specifications and make no other warranty either express or implied, including any warranty of merchantability or fitness for a particular purpose as the conditions of application are beyond our control.

**For Additional Information, Please Contact:**

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