

Product Data Sheet

February 2008

D-Cure 120

Product description

D-Cure 120 is a cycloaliphatic diamine. It consists of stereoisomers of 3-aminomethyl-3,5,5-cyclohexylamine or isophorondiamine (IPD). This primary amine undergoes all of the reactions characteristic for amines: with alcohols, esters, ketones, epoxides etc. When applied to epoxy systems, it can be either used in formulating hardeners or as such.

Product applications

When applied to epoxy systems, it can be either used in formulating hardeners or as such. Curing agents derived from **D-Cure 120** possess a low viscosity. Systems cured with **D-Cure 120** based curing agents show an excellent chemical resistance and good colour stability. **D-Cure 120** finds many applications in civil engineering, concrete repair, flooring, but also in corrosion protection of metals, adhesives. Optimum storage temperatures for **D-Cure 120** are between 15°C and 25°C. At low temperatures, **D-Cure 120** tends to crystallise, a process which can be reversed, however, by gently heating and homogenising the material.

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Product characteristics

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|-------------------------------|----------------------|---|-------------|
| Purity | (wt.%) | : | 99.0 min |
| Viscosity ^a @ 25°C | (mPa.s) | | 5 - 20 |
| Colour | (APHA) | | 20 max |
| Water content | (wt %) | : | 0.2 max |
| Specific gravity @ 20°C | (g/cm ³) | : | 0.920-0.925 |
| HEW ^b | (g/mol H) | : | 43 |

System characteristics

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|------------------------------------|---------------------------------|----|
| phr ^c with liquid resin | (EEW ^d = 184 -190) : | 23 |
|------------------------------------|---------------------------------|----|

a Brookfield viscosity

b HEW : Hydrogen Equivalent Weight (g/mol)

c phr : Parts per Hundred Parts of resin

d EEW : Epoxy Equivalent Weight (g/mol)