



AC-98 HIGH MOLECULAR WEIGHT CYCLIC ANHYDRIDE

Description

AC-98 is a long chain high molecular weight anhydride containing a small amount of active pendent hydroxyl groups. IT HAS BEEN DESIGNED TO BE USED BOTH AS A EPOXY CURING AGENT AND AS A BUILDING BLOCK FOR LOW WATER SOLUBILITY ANTI-CORROSION AGENTS AND DETERGENTS.

When using AC-98 as an epoxy-curing agent, the mix ratio should be approx. 2:1 AC-98 to Bis A epoxy (EEW 190). The resulting cured product would be very flexible and strong having an elongation to break of over 200% and a Tg below 0 degrees Centigrade. When using AC-98 as a reactive flexibilizer, use an anhydride equivalent weight of 400 when calculating the stoichiometry.

When using AC-98 to make detergents neutralize the AC-98 with triethanolamine to a pH of 7. Use the neutralized AC-98 at about 15-20% of the calculated solids then add fatty acid slurry, caustic, TSP, urea, SLES and water.

When making anti-corrosion agents, react the AC-98 with monoamines with a chain length of 3 -6 carbons.

Specifications

Appearance:	clear yellow liquid
Color (Gardner)	4-6
Acid #	135-165
AEW	390-410
Viscosity 20 C	15,000-25,000 cps
Specific Gravity	1.01-1.06
Refractive Index	1.49

Typical Formulation

Epoxy (EEW=190)	100
AC-98	200
BV-7	1.5

Cure 1 hr at 80 C + 1 hr at 120 C + 2 hrs at 150 C