

YD-114 — Low Viscosity Epoxy Resin

General Description

EPOKUKDO YD-114 is a Bisphenol-A type liquid Epoxy Resin diluted with aliphatic glycidyl ether (C12–C14). YD-114 is recommended for non-solvent system or low VOC coating system and has excellent mechanical properties, chemical resistance and non-toxic minimum odor. YD-114 is generally used in solvent-free coating, floor coating, trowelling application, crack injection systems, adhesives, decoupage system, and high solids or low VOC industrial coatings.

Resin Properties

Item	YD-114	Test Method
EEW (g/eq)	190–210	KD-AS-001
Viscosity (cps at 25°C)	500–700	KD-AS-005
HClO ₄ (wt.%)	0.05 max.	KD-AS-010
Specific Gravity (20°C)	1.14	KD-AS-040
Color (Gardner)	0.7 max.	KD-AS-025

Starting Formulation

Component	Part by Weight
YD-114	80
PG-207P	20
Jeffamine D-230 (Huntsman, KUKDO)	27
Jeffamine A-399 (Huntsman, KUKDO)	3
Nonyl Phenol	3

Application Condition

Mixing Ratio: Resin / Hardener = 3 / 1

Pot Life: 70 min (25°C, 100 g scale)

Curing Condition: 24 hrs at room temperature or 2 hrs at 80°C