

EPS 2845

CHEMICAL RESISTANT EPOXY POTTING & ADHESIVE SYSTEM

DESCRIPTION

EPS 2845 epoxy system is used mainly for civil engineering applications due to its unique tensile adhesive properties. EPS 2845 combines a fast cure rate with excellent chemical resistance and a high heat distortion temperature. Applications include grouts, concrete coatings, floor mortar, tank linings, etc.

FEATURES

Unfilled
Rigid 85 D
Excellent Electrical Properties
Good Hydrolytic Stability
Outstanding Adhesion
Excellent Chemical Resistance

LIQUID

PROPERTIES

EPOXY 240A

AMN 320B

MIXED

Appearance	Amber Liquid	Lt. Brown Liquid	Lt. Brown Liquid
Viscosity (cps)	10,000-15,000(77F)	100-300(77F)	9,000-12,000(77F)
Density (lbs/gal)	9.50-9.70	8.50-8.70	9.40-9.60

PHYSICAL PROPERTIES

Hardness, Shore D		85	
Dielectric Constant (KHZ)		3.46	
Dissipation Factor (KHZ)		0.14	
Volume Resistivity ohm-cm		2.0×10^{15}	
Impact Strength Ft. Lbs/In		2.13	
Compressive Strength (psi)		13,800	
Tensile Strength (psi)		8,800	
Elongation, %		6.00	
HDT Deg F		150	
Chemical Resistance (% wt. gain 3 weeks immersion at 77°F)			

Xylene	.1	20% Nitric Acid	.7
111 Trichloroethane	1.6	10% Acetic Acid	5.7
MEK (D)		Ethyl Alcohol	1.3
Cellosolve	13.3	Water	.6
10% H ₂ SO ₄	.5	5% Detergent Solution	.4
70% H ₂ SO ₄	.5	10% NaOH	.4
10% HCl	.5	50% NaOH	.4

EPS 2845 Cont:

PROCESSING PARAMETERS

Process Epoxy resin 240A and Amine Hardener 320B between 55 and 150 Deg. F.

Mold Temperature: 55 to 150 degrees F.

Mix Ratio: 100 parts Epoxy 240A to 15.0 parts Amine 320B by weight

Degas mixture if possible.

Pot Life: (200g mass) (77 Deg F) 10 to 20 minutes

Thin Film Set Time: (77 Deg F) 2 to 3 hours.

Demold: 2-3 hours. Demold time may be shortened by using higher mold and process temperatures.

Post Cure: 48 hours @ 77 degrees F.

STORAGE

Systems should be stored unopened in air tight containers at 60-90 degrees F.

HANDLING PRECAUTIONS

For complete and updated health and safety information, read the MATERIAL SAFETY DATA SHEETS. Do not handle or use until the MATERIAL SAFETY DATA SHEET has been read and understood.