

PRODUCT CODE: C260011/C260012

HETRON 922PAS and HETRON 922PAW are promoted, thixotropic and wax free Epoxy Vinyl Ester resins formulated to provide excellent performance in a wide range of composite applications demanding good chemical resistance.

Selection of the correct resin for a given chemical environment is very important and reference should be made to the current version of the Ashland publication - "HETRON® and AROPOL™ Resin Selection Guide", in conjunction with Allnex Composites Technical Service staff. HETRON 922PAS and HETRON 922PAW are now part of the comprehensive range of corrosion resistant Vinyl Esters made locally by Allnex Composites under licence to Ashland Chemical Co.

FEATURES AND BENEFITS

- Excellent in corrosion and chemical resistance
- Excellent impact strength
- High tensile elongation

CORROSION RESISTANCE

HETRON 922PAS and HETRON 922PAW show good chemical resistance to a wide range of corrosive environments, including sewage treatments and associated fumes. Due to the thixotropic content, it is not suitable for applications where strong oxidising agents are present, example: Sodium Hypochlorite, Hydrofluoric Acid, etc.

For optimum chemical resistance the non-thixotropic resin, HETRON® 922 should be used in the corrosion layer of the laminate. In most cases the structural layer of the corrosion resistant laminate can be completed with HETRON 922PAS/PAW.

SUGGESTED USE

Product can be used for corrosion resistant tanks, pipes, vats, process vessels, pumps, scrubbers, and other equipment. Also suitable for flake-glass or fibreglass reinforced linings, coatings and monolithic toppings on tanks, vats, floors, troughs, and similar applications.

TYPICAL LIQUID RESIN PROPERTIES

PROPERTY	TYPICAL VALUE	PAS	PAW
Geltime @ 25°C (minutes)	1.25% Curox® M-100 Catalyst	35-40	25-30
Specific Gravity	@ 25°C	1.05	
Monomer Content %		48	
Shelf Life	When stored in original closed container in the shade	3 months	

Typical values: Based on materials tested in our laboratories, but varies from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

TYPICAL CURED RESIN CASTING PROPERTIES

PROPERTY	TYPICAL VALUE	TEST DETAILS
Hardness	30	Barcol (GYZ 934-1) EN 59
Specific Gravity	1.12	
Tensile Strength	86 (MPa)	ISO R527
Flexural Strength	141 (MPa)	ISO 178
Flexural Modulus	3.4 (GPa)	ISO 178
Heat Deflection Temperature	100	ISO 175 (1.82 MPa)

Cast resin was prepared as laid down in BS 3532 using 1% MEKP. Cured at room temperature for sixteen hours then post cured for two hours at 80°C followed by two hours at 100°C.

GEL TIME VARIATION – TEMPERATURE & CATALYST

(To be used as a guide only)

HETRON® 922 PAS			
Temp	% Curox® M-100 CATALYST		
°C	2.0	1.5	1.25
15	54	N/R	N/R
20	31	41	49
25	23	30	36
30	16	20	23
35	N/R	N/R	15

HETRON® 922 PAW			
Temp	% Curox® M-100 CATALYST		
°C	2.0	1.5	1.25
15	41	50	57
20	28	31	34
25	19	21	25
30	13	15	16
35	N/R	N/R	11

Post curing is recommended for maximum chemical and heat resistance

Note: Gel times are in minutes

N/R: Not recommended

STORAGE AND HANDLING

To ensure maximum stability and maintain optimum resin handling properties, this product should be stored in closed containers, away from heat sources and sunlight. The product must be stored away from all sources of ignition. Stored resin quantities should be kept to a reasonable minimum and used on a first in/first out stock rotation basis. Prolonged storage, or unfavourable storing conditions, may cause separation, therefore agitation of the resin before use is recommended.

STANDARD PACKAGING

Mild steel drums (open top)
Mild steel pails

Always refer to the MSDS before use.