



**H-EAGLE (120/50) 50%** is a vinyl acetate homopolymer dispersion of medium viscosity with reactive groups and an acidic pH value which confers better water resistance and adhesion power on various wooden substrates and paper

## **APPLICATIONS**

D3 class adhesive for various wooden substrates and paper

## CHARECTERISTICS

- Excellent water resistance with accordance to DIN EN 204 D3.
- Excellent bond strength on hard, compact and exotic wood substrates.
- Quick setting time.

## PROPERTIES

Technology	Core-shell polyvinylacetate homopolymer
Product Type	D3-class adhesive
Base	Dispersion polymer; APEO free, low formaldehyde content
Condition	Water-based dispersion
Components	Class D3: One-component
	Class D4: Two-components
Appearance	Milky white

# Adhesives types using H-EAGLE (120/50)50%

H-EAGLE(120/50)50% is a one-component adhesive for wood and wood substitutes where class D3 water resistance bonds according to EN 204 are required.

# D3-ADHESIVE

Materials	Weight (gm)
H-EAGLE(120/50)50%	969.8
Diglycol acetate, BGA	20.6
Urea	9.6
Total	1000

# D4-ADHESIVE

Materials O		One- component D4 Weight	Two-components D4 Weight
H-EAGLE(120/50)50%		938.8	958.4
Propylene carbonate		19.8	0
Diglycol acetate, BGA		20.6	20.6
Urea		9.6	9.6
Glutaraldehyde		5.9	5.9
Sodium metabisulfite		5.3	0
Desmodur® DN		0	5.5
Total		1000	1000

# **TECHNICAL DATA**

#### 1- Supply Specifications

Test	Unit	Value	Deviation	Method	
Solids content	%	50	±1.0	DIN 53 189/ISO 1625	
Viscosity	mPa.s	12000	±3000	ISO 2555; 23 °C)Brookfield RVT, sp 6, rpm 20 min-1	
Density	g/cm3	1.08	±0.02	ISO 8962	
рН		3.2	±0.4	DIN 53 785 / ISO 1148	

### 2- Typical Dispersion Values

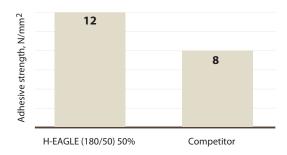
Test	Unit	Value
Minimum film forming temperature	°C	Approx. 4
Particle size	μm	0.3 - 3.0
Film appearance		Slightly opaque, tack-free film

### **3- Physico-mechanical Values**

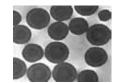
Test	H-EAGLE(120/50) 50%	Competitor
Water resistance(1)	++	+
Thermal stability(2)	OK	Slightly yellowish
Adhesive strength, N/mm2	12	8

(1) ++ very good & + good water resistance with accordance with EN 204.

(2) Thermal stability test was carried out at 65°C for 3 days.







Transmission electron microscope, TEM, shows the core-shell morphology of our polymer latex



Less water absorption with fine particle size polymer than the competitor.

www.eagle-chemicals.com

#### Local Marketing

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