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	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 ºC)Brookfield RVT, sp 6, rpm 20 min-1
Density	g/cm3	1.08	±0.02	ISO 8962
pH		3.2	±0.4	DIN 53 785 / ISO 1148

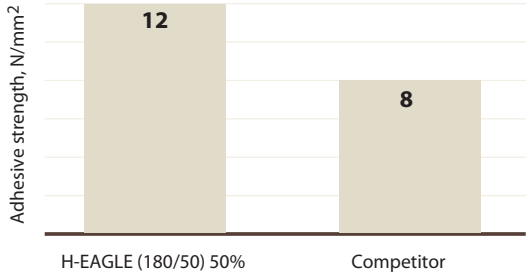
2- Typical Dispersion Values

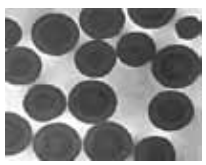
Test	Unit	Value
Minimum film forming temperature	°C	Approx. 4
Particle size	µm	0.3 – 3.0
Film appearance		Slightly opaque, tack-free film

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.

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