

OVERVIEW ADHESIVES

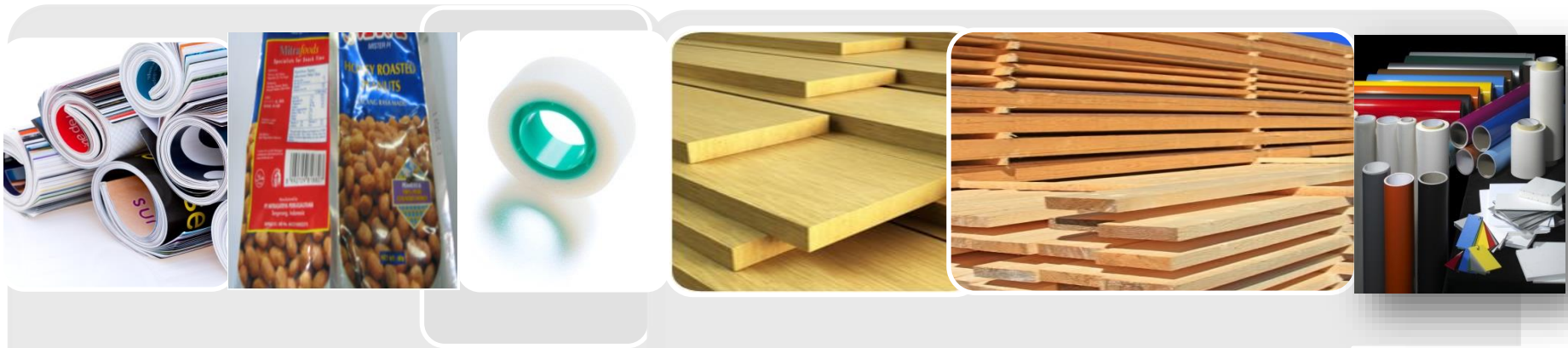


Confidential

Gisela Barona Diaz
BL Emulsions
Mowilith Book
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what is precious to you?

ADHESIVE APPLICATIONS



Lamination

Mowilith
LDM 7255

Flexible Packaging

Mowicoll
FP 80

PSA

Mowilith
LDM 2488
Mowilith
DM 45
Mowilith
PS 7560
Mowilith
LDM 7161

D1- D2

Mowilith P300
Mowilith P400
Mowilith P 436
Mowilith DH 50
Mowilith DHS1
Mowilith D 1605

D3

Mowilith
LDL 2555 W

D4

Mowilith
DP 4900
Mowicoll 1K

Adhesion promotor

Mowilith PB 4
Mowilith DS5
Mowilith
VP 5400
Mowilith LDM
2488

LAMINATION & FLEXIBLE PACKAGING

Dry Gloss
Lamination
Paper-OPP

Mowilith
LDM 7255



FLEXIBLE
PACKAGING

Mowicoll
FP 80



Mowilith LDM 7255

Characteristics :

- Mowilith LDM 7255 is a plasticizer-free aqueous acrylic dispersion.
- Mowilith LDM 7255 is suitable as an adhesive for continuous, dry film-laminating machinery as one- or two-component system. The dispersion film exhibits a good adhesion behaviour towards various plastic sheets (also pretreated PP) and print carriers in laminating processes.

Mowilith LDM 7255

	Unit	Value
Solids content, %	%	52.0 – 54.0
(DIN 53 189 / ISO 1625)		
Viscosity (ISO 2555; 27 °C)	mPa · s	50 – 500
pH value		6.5 – 7.5
(DIN 53 785 / ISO 1148)		
Particle size	µm	Ca. 0.17
Glass transition temperature Tg (DIN 53 765) (DSC, heating rate 20 K/min)	°C	Ca. -20

Mowicoll FP 80

- Adhesive System : 1 Component
- Solid Content : 40 – 42%
- Viscosity : < 200 cps
- pH value : 6.5 – 7.5
- Dry Coating Weight : 2.0 – 3.0 gram/m²
- Shelf Life : 6 Months after delivery

PSA RANGE

PSA

Mowilith LDM 2488
Mowilith DM 45

Mowilith PS 7560
Mowilith LDM 7161



PRESSURE SENSITIVE ADHESIVES

- **Mowilith LDM 2488** – Terpolymer
for Labels
- **Mowilith DM 45** – Vam-DBM
for Labels
- **Mowicoll® PS 7560** - Full Acrylic -
for Tapes
- **Mowicoll® LDM 7161** - Full Acrylic -
for Labels



PRESSURE SENSITIVE ADHESIVES

Product		Solid Content	Viscosity	Features
		%	mPas	
Mowilith	LDM 2488	60	7500 - 15000	High shear, high peel and high dry tack. Excellent bite into UV varnish.
Mowilith	DM 45	55	20000 - 40000	High shear, high peel. Excellent bonding strength in many difficult substrates
Mowilith	PS 7560	55	< 200	OPP Tapes with high peel value
Mowilith	LDM 7161	60	1000	High shear, high peel and tack and excellent mechanical shear stability

D1-D2 EMULSIONS

Product		Solid Content	Viscosity	Features
		%	mPas	
Mowilith	P 300	30	40000 - 55000	Very high viscosity, low solids
Mowilith	P 436	43	40000 - 60000	High viscosity, medium solids
Mowilith	DH 50	50	20000 - 35000	High tensile strength
Mowilith	D168	50	40000 - 60000	High cohesion, good water resistance
Mowilith	D 1605	60	8000 - 12000	Fast setting, 'Newtonian' rheology

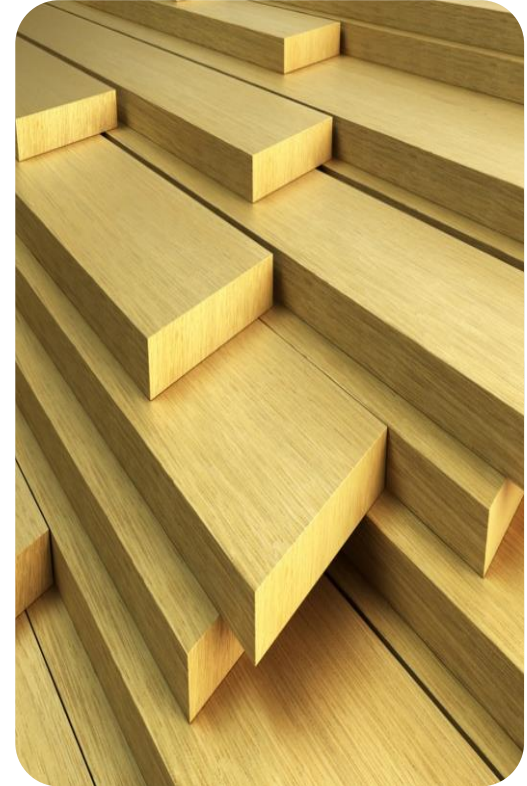
D3 - D4 EMULSIONS

Wood D3

Mowilith LDL
2555W

Wood D4

- Mowilith DP 4900
2 pack with $AlCl_3$
- Mowilith1K
1 pack system



D3 - D4 SPECIFICATION

Product		Solid Content	Viscosity	Features
		%	mPas	
Mowilith	LDL 2555 W	50	9000 - 15000	Water resistant wood glues according to DIN EN 204
Mowilith	DP 4900	47 - 49	7500 - 12500	Water-resistant wood glues according to DIN EN 204 durability class D 4 in combination with aluminium chloride solutions (AlCl ₃ · 6 H ₂ O)
Mowicoll	1K	50	1500 - 2500	Pseudoplastic characteristic, 1 pack D4

ADHESION PROMOTOR ADHESIVES

Product		Solid Content	Viscosity	Features
		%	mPas	
Mowilith	LDM 2488	60	7500-15000	Pseudo-plastic. Can be used for PVC (films, rolls sheets), PU foam, polystyrene wall plates and cellulose acetate films
Mowilith	DS 5	57	12000 - 20000	Pseudo-plastic characteristic, high solid content. Wide adhesion range
Mowilith	DM 45	55	20000 - 40000	High shear, high peel. Excellent bonding strength in many difficult substrates
Mowilith	VP 5400	50	3000 - 10000	Good adhesion to difficult substrates and high setting speed

Mowilith® VP 5400

Copolymer Dispersion for special substrates

Mowilith® VP 5400

Characterisitcs	Unit	Value
Solid content (DIN 53189/ISO 1625)	%	50±1
Viscosity (ISO 2555, 23°C) Brookfield – RVT, sp. 3 / 20 rpm	3000 - 10000	mPa.s
pH Value (DIN 53785 / ISO 1148)	-	4 - 5
Film	Elastic	
Tg (Glass temperature)	°C	0
Thermoseal temperature	°C	60

Mowilith® VP 5400

One of the key properties are the good adhesion to difficult substrates and the high speed setting

USED IN

- Paper packaging
- Varnish paper
- Bookbinding
- PVC foil
- Aluminium foil
- Labels for PVC bottles
- Lamination PVC – Wood
- PVC – Cardboard
- PVC - Leather

Mowilith® VP 5400 – example formulation

OFFICE UNIVERSAL ADHESIVE

Mowilith VP 5400	89,6 parts
Tylose MHB 6000k	10,0 parts
Nopco NXZ	0,2 parts
Mergal K7 liq	0,2 parts
TOTAL	100 parts



Mowilith® VP 5400 – example formulation



Paper – Aluminium foil

Mowilith VP 5400	80,4 parts
Ammonia	1,0 parts
Arkopal N 100, 10%	0,2 parts
Toluol	7,5 parts
Water	7,5 parts
Mergal AF	0,2 parts
Nopco NXZ	0,2 parts
Trichlorethylene	3,0 parts
TOTAL	100 parts

Mowilith® VP 5400 – example formulation



PVC – Paper oder Cardboard

Mowilith VP 5400	80,0 parts
Nopco NXZ	0,2 parts
Mergal AF	0,2 parts
Arkopal N 100, 10%	2,0 parts
Cyclohexanon	2,0 parts
Tylose MH 2000K, 3%	15,6 parts
TOTAL	100 parts

Mowilith® VP 5400 – example formulation



PVC – Wood / Furniture

Mowilith VP 5400	55,0 parts
Calciumcarbonate	32,0 parts
Toluol	3,0 parts
Rosin (Colophonium)	3,0 parts
Dibutylphatalate	3,0 parts
Arkopal N 100, 10% in water	1,0 parts
Mergal AF	0,2 parts
Nopco NXZ	0,2 parts
Water	2,6 parts
TOTAL	100 parts

Mowilith® VP 5400 – example formulation



PVC foil – Wood

Mowilith VP 5400	94,6 parts
Toluol	2,0 parts
Cyclohexanon	1,0 parts
Dibutylphtalate	2,0 parts
Nopco NXZ	0,2 parts
Mergal AF	0,2 parts
TOTAL	100 parts

Mowilith® VP 5400 – example formulation



PVC foil – Leather

Mowilith VP 5400	96,0 parts
Cyclohexanon	2,0 parts
Arkopal N 100, 10% in water	2,0 parts
TOTAL	100 parts



THANKS !

