

Product Information

Alberdingk[®] APU 10120

What is the resin's nature?

Solvent-free, aliphatic polyester polyurethane/acrylic hybrid dispersion.

Technical data:

Solids content:	44 - 46%
pH-value:	7.0 - 8.5
Viscosity:	20 - 200 mPas
MFFT:	approx. 15°C

Why has the resin been developed?

For superior adhesion properties to plastics (ABS, PC, ABS-PC, etc.) and ultra fast water resistance.

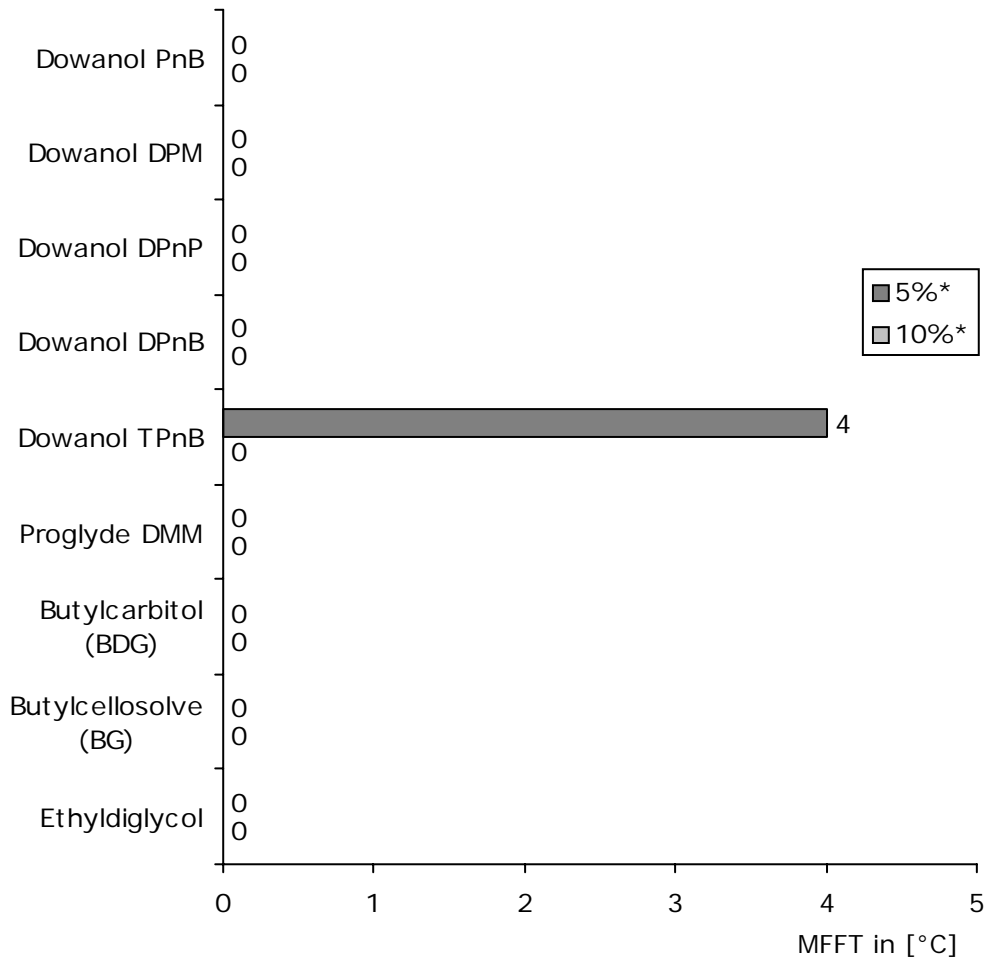
What is the suggested field of application?

- Primer for plastics
- Primer for MDF
- Basecoats

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MFFT-Reduction



*premixed with water (1:1)

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Suitable raw materials

Defoamers:

Byk 024 (BYK Chemie)

Byk 028 (BYK Chemie)

Substrate wetting agents:

Byk 346 (BYK Chemie)

Tego Wet 280 (Evonik Tego Chemie)

Coalescing agents:

Dowanol DPM (Dow Chemical)

Butylcellosolve, BG (BASF)

Dowanol DPnB (Dow Chemical)

Butylcarbitol, BDG (BASF)

Dispersants:

Disperbyk 190 (BYK Chemie)

Disperbyk 192 (BYK Chemie)

Matting agents:

Acematt TS 100 (Evonik)

Syloid C 807 (Grace)

Rheology control additives:

DSX 1514 (BASF)

DSX 2000 (BASF)

Viscolatex HV 30 (BASF)

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Formulation Proposal

FP 10120-7 car refinsh filler

Pos.	Raw Materials	Amount	Supplier
1	ALBERDINGK[®] APU 10120	75.80	Alberdingk Boley
2	Butylcellosolve (BG)	2.20	BASF
3	Water (deion.)	3.00	
4	Disperbyk 190	0.50	BYK Chemie
5	Byk 024	0.30	BYK Chemie
6	Talkum M 20	5.50	Luzenac
7	Blanc fixe micro	7.00	Sachtleben
8	Kronos 2190	5.00	Kronos Titan Inc.
9	Colanyl black N 500	0.20	Clariant
10	DSX 2000	0.50	BASF
Total		100.00	

premix pos. 2 + 3 before use

Please take note of local regulations, that might limit or ban the use of raw materials such as 2-(2-Butoxyethoxy)ethanol [=BDG; = Butylcarbitol] or 2-Butoxyethanol [= BG; = Butylcellosolve].

Example: Decision No. 1348/2008/EG

Latest update
Jan 01, 2011

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Alberdingk Boley, Inc. | Greensboro, NC | USA | www.alberdingkusa.com
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The details contained herein are based on our present state of technology and shall inform on our products and their application possibilities. A lawful binding assurance of certain attributes or a suitability for a concrete operation purpose cannot be derived from this information. Industrial property rights are to be considered if required.

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Alberdingk[®] APU 10120

Mechanical Resistance*

FP 10120-7 car refinish filler

Test	Substrates	Results**	Test Conditions
Adhesion (according to ISO 2409)	ABS	Gt 0	Cross hatch cut, 100μ wet
	PC	Gt 0	
	PA 6.6	Gt 0	
	Steel	Gt 0	
	Tape peel-off	ABS	Gt 0
		PC	Gt 0
		PA 6.6	Gt 0
		steel	Gt 0

**Gt 0 = best / Gt 5 = worst

Product Information

Alberdingk[®] APU 10120

Formulation Proposal

FP 10120-4 aluminium basecoat

Base Varnish Preparation

Pos.	Raw Material	Amount	Supplier
1	ALBERDINGK[®] APU 10120	25.90	Alberdingk Boley
2	Byk 346	0.10	BYK Chemie
3	Byk 028	0.25	BYK Chemie
4	Water (deion.)	25.20	
5	Viscalex HV 30 (10% in water, neutralized in AMP-90 or DMEA)	25.20	BASF

Mix pos. 1 - 5 for 10 min.

Adjust pH-value to pH 7.6 - 8.0 AMP-90 or DMEA.

Pos.	Raw Material	Amount	Supplier
6	Stapa BG Hydrolan 356	5.00	Eckart-Werke
7	Butylcarbitol (BDG)	1.50	BASF
8	Disperbyk 192	0.25	BYK Chemie
9	Water (deion.)	16.60	
Total		100.00	

Mix pos. 6 - 9 carefully and add it to the base varnish preparation under low shear rate for 10 min.

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	PC	Gt 0	
	PA 6.6	Gt 0	
	steel	Gt 0	
	FP 10120/7 car refinish filler	Gt 0	
	ABS	Gt 1	Tape peel-off
	PC	Gt 1	
	PA 6.6	Gt 1	
	steel	Gt 0	
	FP 10120/7 car refinish filler	Gt 0	

** Gt 0 = best / Gt 5 = worst