

Product Information

Alberdingk[®] AC 2742

What is the resin's nature?

Economic, multi-phase, self-crosslinking acrylic dispersion for single- / two-pack coatings.

Technical data:

Solids content:	47 - 49%
pH-value:	7.5 - 8.5
Viscosity:	2,000 - 4,000 mPas
MFFT:	approx. 45°C

Why has the resin been developed?

- for coffee and red wine resistance clear & pigmented furniture coatings
- very high general chemical resistance
- low grain raising

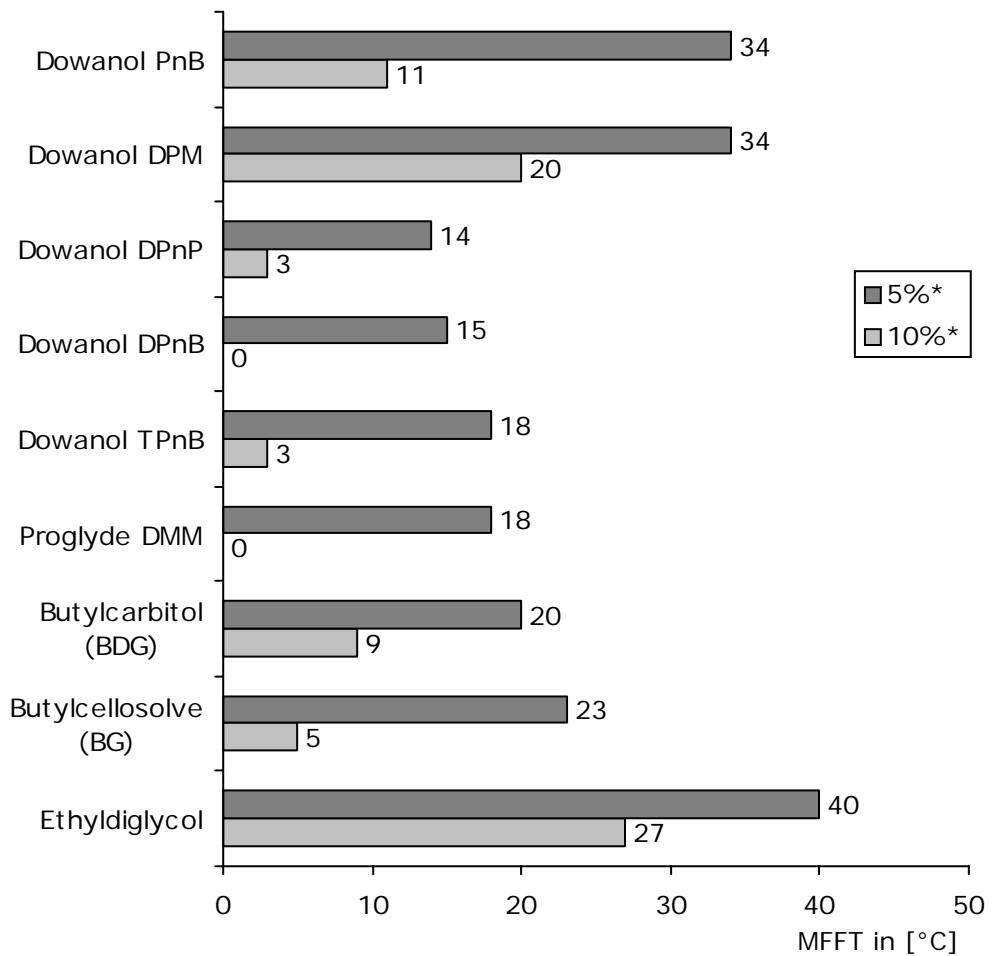
What is the suggested field of application?

- Furniture coatings (single-pack / two-pack)
- Floor coatings
- Pigmented lacquers with excellent stain resistance and hardness
(single-pack / two-pack)

Product Information

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MFFT-Reduction



*premixed with water (1:1)



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Suitable raw materials

Defoamers:

Byk 024 (BYK Chemie) Tego Foamex 822 (Evonik Tego Chemie)
Tego Foamex 845 (Evonik Tego Chemie)

Substrate wetting agents:

Byk 346 (BYK Chemie) Tego Wet 280 (Evonik Tego Chemie)

Coalescing agents:

Dowanol DPM (Dow Chemical) Butylcellosolve, BG (BASF)
Dowanol DPnP (Dow Chemical) Butylcarbitol, BDG (BASF)

Dispersants:

Surfynol CT 231 (Air Products)

Rheology control additives:

DSX 1514 (BASF)
Tego Viscoplus 3000 (Evonik Tego Chemie)

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Formulation Proposal

FP 2742-3 single-/two-pack furniture, pigmented

Pos.	Raw Materials	Amount	Supplier
1	ALBERDINGK[®] AC 2742	48.80	Alberdingk Boley
2	Tego Foamex 822	0.80	Evonik Tego Chemie
3	Dowanol DPM	3.90	Dow Chemical
4	Butylcarbitol (BDG)	3.90	BASF
5	Water (deion.)	20.00	
6	Syloid C 2006	1.00	Grace GmbH
7	Aquaflour 400	1.00	BYK Cera
8	Pigment paste CT 231 (see on next page)	19.60	quantity of TiO ₂ : 15.2%
9	Byk 346	0.20	BYK Chemie
10	Byk 320	0.20	BYK Chemie
11	DSX 1514	0.60	BASF
Total		100.00	

premix pos. 3 - 5 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
Alberdingk Resins (Shenzhen) Co., Ltd. | Shenzhen | P. R. China | www.alberdingkchina.com

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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Pigment Paste Formulation

Pos.	Raw Materials	Amount	Supplier
1	Water (deion.)	10.80	
2	Surfynol CT 231	5.70	Air Products
3	Laponite RD (4%)	6.00	Laporte
4	Kronos 2190	77.50	Kronos Titan Inc.
Total		100.00	

Crosslinking:

In order to achieve a maximum of chemical resistance, we recommend to add 10.0% of Bayhydur XP 2487/1 (80% in MPA)

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Chemical Resistance*

FP 2742-3 single-/two-pack furniture, pigmented

Test Chemicals	Test Duration	Test Results** (single-pack)	Test Results** (two-pack)
Ethanol (48%)	1h	5	5
NH ₄ OH (10%)	1min	5	5
Water (deion.)	16h	5	5
Coffee (4%)	16h	5	5
Tea (1%)	16h	5	5
Red wine	5h	5	5
Cola	16h	5	5
Na ₂ CO ₃ (10%)	2min	5	5
Fatty acid	1h	5	5
	5h	5	5
	16h	4	5

**5 = best / 0 = worst

Test features

Feature	Test Conditions	Test Results
Gloss (20° / 60° / 85°)	300µm wet film on leneta foil	3 / 21 / 44

Two-pack = crosslinked with 10.0% Bayhydur XP 2487/1 (80.0% in MPA)

*tested according to EN 12720

the fatty acid test simulates the resistance of the film to human hand fat or hand lotions

Product Information

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Formulation Proposal

FP 2742-11 single-/two-pack furniture, transparent, glossy

Pos.	Raw Material	Amount	Supplier
1	ALBERDINGK[®] AC 2742	70.20	Alberdingk Boley
2	Tego Foamex 822	0.80	Evonik Tego Chemie
3	Butylcellosolve (BG)	5.00	BASF
4	Dowanol TPnB	1.50	Dow Chemical
5	Water (deion.)	19.00	
6	Aquacer 539	3.00	BYK Cera
7	Byk 349	0.25	BYK Chemie
8	DSX 1514	0.25	BASF
Total		100.00	

premix pos. 3 - 5 before use

Crosslinking

In order to obtain the best chemical resistance, we recommend to add 10.0% of Bayhydur 305 (65% in Proglyde DMM).

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

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Chemical Resistance*

FP 2742-11 single-/two-pack furniture, transparent, glossy

Test Chemicals	Test Duration	Test Results** (single-pack)	Test Results** (two-pack)
Ethanol (48%)	1h	5	5
NH ₄ OH (10%)	1min	5	5
Water (deion.)	16h	5	5
Coffee (4%)	16h	5	5
Tea (1%)	16h	5	5
Red wine	5h	5	5
Cola	16h	5	5
Na ₂ CO ₃ (10%)	2min	5	5
Fatty acid	1h	5	5
	5h	5	5
	16h	3	5

** 5 = best / 0 = worst

Test features

Feature	Test Conditions	Test Results
Gloss (20° / 60° / 85°)	300µm wet film on leneta foil	71 / 90 / 95

Two-pack = crosslinked with 10.0% Bayhydur 305 (65% in Proglyde DMM).

*tested according to EN 12720

the fatty acid test simulates the resistance of the film to human hand fat or hand lotions