
 for tomorrow's
Technology

ADDISP™ 600N

Hyper Dispersant
Starting formulations
AS-1303 / AS-1304 / AS-1305

 for tomorrow's
World

ADDISP™ 600N

Pigment Dispersant

Typical chemical and physical properties

ADDISP™ 600N is an excellent solvent-free Dispersant for TiO₂, mineral pigments and fillers. It is also excellently suitable for colorants and reactive pigments.

ADDISP™ 600N is a modified Polyacrylate dispersant with very low and narrow molecular weight and sodium cation. Due to specific moieties excellent hard water resistance can be achieved.

Counter ion	Sodium
Appearance	clear, yellow-amber fluid
Viscosity at 20 °C	100 - 800 m.Pa.s
Density at 25 °C	1.26 – 1.31 g/cm ³
Solid content	39 - 41 %
Mol. Wt.	ca. 3000
Solubility Water	Complete
Residual Monomer	< 100 ppm Acrylate
Shelf life	12 months

Benefits

- ADDISP™ 600N is recommended for use in formulations with medium - high PVC (30 - 80 %).
- The gloss of emulsion paint and lacquers is not influenced by the addition of ADDISP™ 600N.
- The product shows high glycol compatibility.
- The very narrow molecular weight distribution of ADDISP™ 600N guarantees a high effectiveness in dispersing properties.
- In comparison with most dispersants the abrasion values are significantly lower.
- pH application range: 4 – 13.
- ADDISP™ 600N optimises the absorption of tinting pastes for emulsion paints.
- Use of Polyphosphates should be omitted under all circumstances when using ADDISP™ 600N since the effect of Polyphosphates is detrimental to the performance of ADDISP™ 600N.

Applications & typical treat level recommended

- Paint industry
- Printing ink industry
- Paper coating industry
- Adhesives industry
- Concrete industry

Safety and Handling

Please read Material Safety Data Sheet (MSDS) before handling.

Product Specification

This information is available on request through our local representative.

Packaging

This information is available on request through our local representative.

Quality Policy

The objective of our quality policy is the continuous fulfillment of the internal and external requirements agreed upon with our partners with regards to everybody's performance.

The Quality System of ADDAPT Chemicals BV is based on the principles of the NEN-EN-ISO-Standard 9001:2008.

Starting formulation AS-1303

Cost effective Interior Wall Paint EN 13300 Class 2 - Scrub-Resistance

This formulation produces a cost effective interior wall paint with very good scrub resistance (according to EN 13300 – Class 2: $\geq 5 \mu\text{m}$ and $< 20 \mu\text{m}$ at 200 Rubs).

Starting formulation AS-1303*

Item	Component	Weight
	MIX	
1	Water	35.18
2	ADDAPT® Foamstop™ VF 35N	0.20
3	ADDAPT® ADDISP™ 600N	0.30
4	Acticide	0.20
5	Wallocel XM 6.000 PV	0.50
	DISPERSE	
6	Tipure R706	19.00
7	CaCO ₃ 2 μm	8.50
8	Intalc 20 LA	8.50
9	Sipernat P 820	4.00
10	Dorkafill H	6.50
11	Mica Celia 100L	6.00
12	Sodium Hydroxide 10%	0.05
	MIX	
13	ADDAPT® Foamstop™ VF 35N	0.10
14	Coapur 830W	0.17
15	ADDAPT® WaxMul™ WM 110	0.60
16	Mowilith 1871	10.00
17	ADDAPT® AS 400	0.20
Total		100.00

Non Volatile Content, by weight: 59.0%
pH: 8.0
PVC: 52.5%

Starting formulation AS-1304

Cost effective Interior Wall Paint EN 13300 Class 3 - Scrub-Resistance

This formulation produces a cost effective interior wall paint with very good scrub resistance (according to EN 13300 – Class 3: $\geq 20 \mu\text{m}$ and $< 70 \mu\text{m}$ at 200 Rubs).

Starting formulation AS-1304*

Item	Component	Weight
	MIX	
1	Water	34.37
2	ADDAPT® Foamstop™ VF 35N	0.20
3	ADDAPT® ADDISP™ 600N	0.30
4	Acticide	0.20
5	Wallocel XM 30.000 PV	0.38
	DISPERSE	
6	Tiona 595 / Tipure R706	8.00
7	CaCO ₃ 2 μm	10.00
8	Intalc 20 LA	11.00
9	Chalk T60	8.50
10	Precarb 100	11.00
11	Mica Celia 100L	8.00
12	Sodium Hydroxide 10%	0.05
	MIX	
13	ADDAPT® Foamstop™ VF 35N	0.10
14	ADDAPT® WaxMul™ WM 110	0.60
15	Mowilith 1871	7.00
16	ADDAPT® AS 400	0.30
Total		100.00

Non Volatile Content, by weight: 61.3%
pH: 8.0
PVC: 56.5%

Starting formulation AS-1305

Cost effective Interior Wall Paint EN 13300 Class 4 - Scrub-Resistance

This formulation produces a cost effective interior wall paint with very good scrub resistance (according to EN 13300 – Class 4: < 70 µm at 40 Rubs).

Starting formulation AS-1305*

Item	Component	Weight
	MIX	
1	Water	39.35
2	ADDAPT® Foamstop™ VF 35N	0.20
3	ADDAPT® ADDISP™ 600N	0.30
4	Acticide	0.20
5	Wallocel XM 30.000 PV	0.40
	DISPERSE	
6	Tiona 595 / Tipure R706	4.00
7	CaCO ₃ 2µm	20.00
8	CaCO ₃ 10µm	18.00
9	Chalk	6.50
10	Talkum ST 60	6.50
11	Sodium Hydroxide 10%	0.05
	MIX	
12	ADDAPT® Foamstop™ VF 35N	0.10
13	ADDAPT® WaxMul™ WM 110	0.60
14	Acronal 290D	3.00
15	ADDAPT® AS 400	0.30
Total		100.00

Non Volatile Content, by weight: 61.3%
pH: 8.0
PVC: 56.5%

* IMPORTANT NOTE: Usage of Polyphosphates in this formulation is detrimental for wet-scrub.



Formulation

Quartz exterior paint

EN 1602-3

Water vapor transmission rate:
high, $sd < 0.14 \text{ m, V1}$

Water permeation rate:
low, $w \leq 0.1 \text{ kg/(m}^2\text{h0,5), W3}$

The combination of ADDISP™ 600N with ADDAPT® CODIS™ 95 improves the receptiveness of tinting pastes.

Due to the low amount of dispersant remaining in the film and the high water resistance of ADDISP™ 600N there is significantly lower risk of fouling and snail trails.



Quartz exterior paint

Item	Component	Weight
	MIX Mix for 20 minutes at max. rpm/ min followed by a laboratory test.	
1	Water	17.73
2	ADDAPT® ADDISP™ 600N	0.30
3	Acticide	0.10
4	ADDAPT® Foamstop™ VF 35N	0.20
5	Tiona 595 / Tipure R706	8.00
6	Quartz F32 / F35	17.50
7	Plastorit Micro	5.00
8	Intalc 12060 LA	5.00
9	Dorkafil H	5.00
10	Wallocel XM 6.000	0.32
11	Agocel V500D	0.10
12	ADDAPTOL™ DB	1.50
13	ADDAPT® CODIS™ 95	0.25
14	ADDAPT® SilStab L50	1.00
	MIX 5 minutes of remixing followed by a laboratory test.	
15	Silicone Resin	1.50
16	ADDAPT® WaxMul™ WM 110	1.00
17	Xynpol PA320MF Acrylic Emulsion	30.00
18	Mica Celia 100L	5.00
19	Arbocell B400	0.40
20	ADDAPT® Foamstop™ VF 35N	0.10
21	Coapur 830W	0.001
Total		100.00

CONTACT INFORMATION

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Liability

All recommendations for the use of our products, whether given by us in writing, oral, or to be implied from the results of tests carried out by us, are based on the current state of our knowledge. Under no circumstances shall Seller be liable for incidental, consequential or indirect damage for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with product(s). Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled lab work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has/have not been tested for, and is/are therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin or blood is intended, or for uses for which implantations within the human body is intended.

