Adiwax®

Wax emulsions and dispersions

Gloss and matting.
Scratch and matt resistance. Water repellency.
Slip control, soft touch and antiblocking.
Effect pigment orientation.

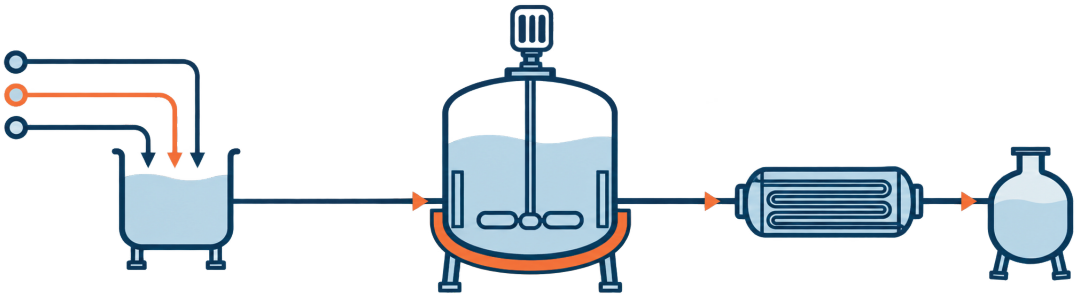
WOOD | COIL | LEATHER | WALL PAINTS



Water-borne waxes

Emulsions & aqueous dispersions

01 Emulsion production process



Combine
Water, emulsifier and additives

Emulsify
High stirring, >100 °C, 2 bar

Cool
Chiller at 30-35 °C

02 Complete water-borne portfolio

Product	Chemistry	Characteristics	Main function	M.p. °C	Solids %	pH	Char.
ADIWAX® H05 CW	HDPE	Antiblocking, gloss, slip control	Antiblocking	135	34.5-36.5	7.5-9.5	NI
ADIWAX® AG 23	HDPE / paraffinic blend	Water repellency	Water repellency	50-100	26-28	9-11	NI
ADIWAX® 630	Modified paraffinic	Slip and scratch resistance	Scratch resistance	50-100	39-41	9.5-11.5	NI
ADIWAX® Bio H 30	Carnauba	Mar & slip resistance, gloss*	Slip, gloss*	85-90	29-31	5-7	NI
ADIWAX® H02*	Low-density PE	Soft touch	Haptic effect	80-90	34.5-36.5	9-11	NI
ADIWAX® H350*	Modified PE dispersion	Matting, scratch, metal marking improvement*	Matting, scratch	135-145	37-39	7.5-8.5	NI



Wax formats and particle sizes

Water-borne emulsion

0.01-0.5 µm*

Water-borne dispersion

1-10 / 1-15 µm*

All grades are ADIWAX. Aqueous dispersions include H350. H02 and H350 are made to order. M.p. = melting point. Char. = character (NI in source).

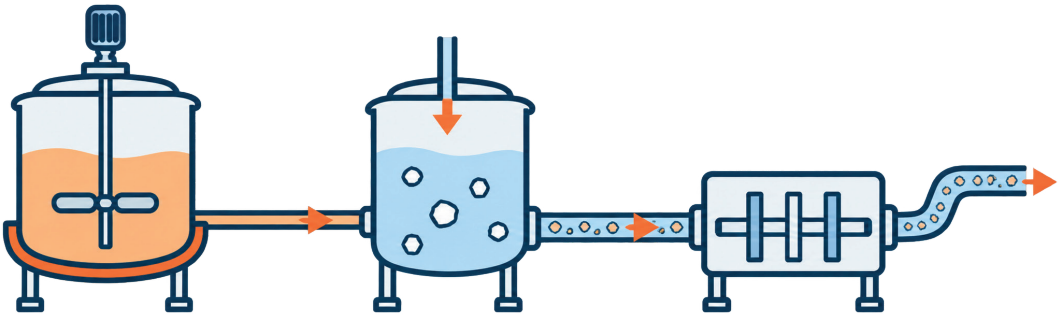
Technical confirmation: the source gives two upper limits for aqueous dispersions (10 and 15 µm). Bio H 30 slip terminology and H350 metal marking wording remain to be confirmed. The emulsion source does not identify the wax feed or pressure basis.

Solvent-borne waxes

Solvent-borne & high-solid dispersions

ADIWAX DSP particle size: 1-20 µm

01 | ADIWAX DSP production process



Heat
Wax and solvent, >100 °C

Crystallise
In cold solvent at room temperature

Grind
Grinding step

02 | Complete solvent-borne portfolio

Product	Chemistry	Characteristics	Supply form	M.p. °C	Solids %	Market
ADIWAX® DSP 28 X	PE	Matt surface modification, scratch resistance, soft feel	Pumpable	105	12.5-14.5	Wood
ADIWAX® DSP 112	PE	Like DSP 28 X, aromatic-free	Pumpable	105	11-13	Wood
ADIWAX® DSP 120 X	HDPE	Matt finish, high scratch resistance, soft feel	Pumpable	135	16-17	Wood
ADIWAX® DSP 1476	PE	Matt surface modification, scratch resistance, soft feel (high boiling point solvent)	Pumpable	105	9-11	General
ADIWAX® DSP 1596	PE	Aluminium and pearlescent pigment orientation, anti-settling	Pumpable	100	9-11	Effect coatings
ADIWAX® M 60	Oxidised PE	Soft paste, anti-sag control, stabilisation in "rich Zn ox primers"*	Solid paste*	100	23-25	Anticorrosive

Why ADIWAX DSP?

Matt effect
Vertical applications and large surfaces

Silica efficiency
Improved silica efficiency

Anti-settling
Control of settling

Pigment orientation
Aluminium and pearlescent pigments in metallic paints

Rheology control
Control of formulation rheology

Anticorrosive paints
Anti-settling in anticorrosion paints

Tailor-made solvent dispersions

Customised wax and solvent phase: aromatics, esters, ketones and glycols. Wax and resin combinations. Flexible batches. Supply in drums, IBCs and road tankers.



M.p. = melting point. *ADITIX M 60: confirm "rich Zn ox primers" and soft / solid paste terminology. Source capabilities requiring scope confirmation: "Tool production" and "Integrated Authorization to manage all Solvents". Process diagrams are conceptual.

