



For Optimum Results. Saphira Water-Based Coatings.

For a perfect end result.

Saphira water-based dispersion coatings offer the right product for every application. All of the formulations are based on carefully selected raw materials combined into one-of-a-kind coating recipes by experienced developers. Our top priority for you is always ease of use and maximum production reliability.

Benefits:

- Fast film formation
- Reduction in the amount of powder, combined with higher delivery piles
- Good abrasion protection
- Odorless coating film
- Higher processing speed
- No yellowing
- Faster postpress and attractive embellishment options

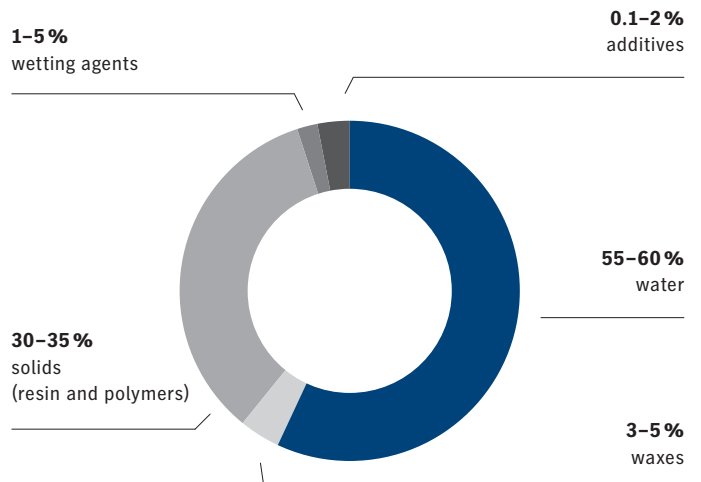
Composition of a dispersion coating.

A non-pigmented dispersion coating consists of water as a solvent, various polymer dispersions, water-soluble resins, and a variety of additives. These components influence the printing characteristics of the coating, for example, the abrasion resistance, drying speed, and surface quality. In addition to non-pigmented dispersion coatings, there are also pigmented coatings like gold, silver, or various luster and color effects.




The drying process for a dispersion coating is a purely physical process: when the water content in the coating evaporates or is absorbed, the polymer particles are packed closer together and coalesce into a continuous film.







Composition of a dispersion coating





Fast-drying for best results.
Saphira dispersion coatings.

Designation	Coating no.	Gloss level	Matte level	Wet-blocking resistance	Glueability	Slip	Drying speed	Double-sided application	Abrasion resistance	UV coatable	Foil lamination	Foil substrates	Offset paper	Paper/commercial	Cardboard/folding carton	Saphira Eco	Saphira Low Migration
Gloss coatings																	
Gloss and high-gloss coatings are used for embellishing printed products and also to protect the ink film during postpress.																	
Saphira Coating HG 1 Side	W7777	++++	-	+++	o	+++	+++	o	+++	-	-	-	-	•	•		
Saphira Coating HG 2 Side	W7515	++++	-	+++	o	+++	+++	•	+++	-	-	-	-	•	•		
Saphira Coating HG 1 Side	W7508	++++	-	++	o	+++	++	o	+++	-	-	-	-	•	•		
Saphira Coating Gloss	W7365	+++	-	++++	o	++++	+++	•	++++	o	o	o	o	•	•		
Saphira Coating Gloss	W3950	+++	-	+++	o	++++	+++	•	+++	o	o	o	o	•	•		
Saphira Coating Gloss	W3665	+++	-	+++	o	+++	+++	•	+++	-	-	-	-	•	•		
Saphira Coating Gloss	W3265	+++	-	+++	o	+++	+++	•	+++	-	-	-	-	•	•		

Matte coatings																	
Neutral or matte coatings in different grades are used for embellishing printed products.																	
Saphira Coating Extra Matte	W7310	-	++++	+++	o	+++	+++	•	++++	o	-	-	o	•	•		
Saphira Coating Matte	W7320	-	+++	+++	o	+++	+++	•	++++	o	-	-	o	•	•		
Saphira Coating Satin	W7335	-	++	+++	o	+++	+++	•	++++	o	-	-	o	•	•		
Saphira Coating Neutral	W7345	-	+	+++	o	+++	+++	•	++++	o	-	-	o	•	•		
Saphira Coating Extra Matte	W3610	-	++++	+++	o	+++	+++	•	+++	o	-	-	o	•	•		
Saphira Coating Matte	W3615	-	+++	+++	o	+++	+++	•	+++	o	-	-	o	•	•		
Saphira Coating Satin	W3635	-	++	+++	o	+++	+++	•	+++	o	-	-	o	•	•		
Saphira Coating Neutral	W3645	-	+	+++	o	+++	+++	•	+++	o	-	-	o	•	•		
Saphira Coating Neutral	W3235	-	+	+++	o	+++	+++	•	+++	o	-	-	o	•	•		
Saphira Coating Neutral	W3220	-	+	+++	o	+++	+++	•	+++	o	-	-	o	•	•		

Matte/gloss sealers																	
Sealers are coatings designed specifically for uncoated papers. They protect the freshly printed ink, permitting faster finishing of the printed sheets. They are specially formulated to be less susceptible to curling, making them suitable for thin substrates.																	
Saphira Coating Sealer Gloss	W8800	++	-	+++	•	++++	++++	•	+++	-	-	-	•	•	o		
Saphira Coating Sealer Neutral	W7080	+	-	+++	o	+++	+++	•	+++	-	-	-	•	•	o		
Saphira Coating Sealer Matte	W8845	-	++	+++	•	++++	++++	•	+++	-	-	-	•	•	o		

The combination of individual features may vary.
 + low, slow ++++ very high, very fast o limited suitability, test required • suitable - not suitable
 part of the Saphira Eco product line  part of the Saphira Low Migration product line

Varied and unique.
Saphira effect coatings.

Designation	Coating no.	Gloss level	Matte level	Wet-blocking resistance	Glueability	Slip	Drying speed	Double-sided application	Abrasion resistance	UV coatable	Foil lamination	Foil substrates	Offset paper	Paper/commercial	Cardboard/folding carton	Saphira Eco	Saphira Low Migration
Matte/gloss primers																	
Primers are used to prepare sheets printed using the conventional offset method for subsequent inline or offline finishing with UV coatings. The primer seals the ink film, preventing the UV coating being absorbed into the ink and the gloss level being diminished.																	
Saphira Coating Primer Inline	W7625	++++	-	++	o	++	+	o	+	•	-	-	-	•	•		
Saphira Coating Primer Gloss	W7630	++++	-	++	o	++	+	o	+	•	-	-	-	•	•		
Saphira Coating Primer Gloss	W7820	+++	-	+++	•	+++	+++	•	+++	•	•	•	-	•	•		
Saphira Coating Primer Matte	W8695	-	+++	++	•	+++	++	•	+++	•	o	o	-	•	•		
Barrier coatings																	
Barrier coatings form a protective layer against grease, water, or oils. This barrier characteristic is heavily influenced by the respective substrate. Sample applications include bags for French fries, menu cards, or place mats.																	
Saphira Coating Barrier	W3385	+++	-	+++	o	+++	+++	o	+++	-	-	-	-	•	•		
Saphira Coating Barrier	W3395	+++	-	++	o	+++	+++	o	+++	-	-	-	-	•	•		
Blister coatings																	
Blister coatings are used if a printed product is to be subsequently fused with another piece. Application examples include toothbrush packagings, tablets, and business card holders.																	
Saphira Coating Blister Pack	W7800	+++	-	++	•	+++	+++	•	+++	o	o	o	-	•	•		
In-mold coatings																	
In-mold coatings are used on foils intended for subsequent fusing with packaging, for example, for yogurt cups.																	
Saphira Coating IML Gloss	W7010	+++	-	+++	o	+++	+++	o	++++	-	-	•	-	•	•		
Saphira Coating IML Gloss	W7915	+++	-	+++	o	+++	+++	•	+++	-	-	•	-	o	o		
Low-slip coatings																	
Low-slip coatings are used in packaging to prevent slippage when the product is on the shelf.																	
Saphira Coating Low Slip	W3372	+++	-	++	o	-	+++	o	+++	o	o	-	-	•	•		
Saphira Coating Low Slip	W3382	+++	-	++	o	-	+++	•	+++	o	o	-	-	•	•		
Pearl base coatings																	
The pearl base coating can be blended with pigments to produce special effects.																	
Saphira Coating Pearl Base	W7680	+++	-	++++	o	++++	++++	•	+++	o	o	-	-	•	•		
Playing card coatings																	
Playing card coatings are used to make playing cards more dirt-resistant and slippery.																	
Saphira Coating Playing Card	W9090	++	-	++++	o	++++	++++	•	++++	-	-	-	-	•	•		
Soft touch coatings																	
Soft touch coatings give the printed product a velvety surface with a plush feel.																	
Saphira Coating Velvet Touch	W8505	-	+++	+++	o	+++	+++	•	+++	-	-	-	•	•	•		
Saphira Coating Soft Touch	W8512	-	+++	+++	•	++++	++++	•	++	-	-	-	•	•	o		

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Saphira – the Consumables of Choice.

Proven quality.

Saphira products are thoroughly tested to make sure they are perfectly attuned with each other and with your production systems.

Expert advice.

Our experts will help you select your consumables and answer any technical questions you may have.

Everything from a single source.

We are your one-stop shop for consumables, machines, software, and services. This makes life easier and simplifies administration.

Saphira consumables from Heidelberg are available for the press room, prepress and postpress – at reasonable prices.

Saphira Coatings and other consumables are available from your Heidelberg Consumables Representative and online.

To order online:

In the United States: shop.heidelberg.com/us

In Canada: shop.heidelberg.com/ca



Safe. Clean. High-performance: Saphira Eco consumables.

- Based on renewable and/or recyclable raw materials
- Free of SVHC (CMR, PBT, vPvB) in accordance with REACH regulation
- Lower emissions than comparable products
- Produced by ISO 9001/14001-certified manufacturers
- Comply with or exceed legal regulations and industrial performance standards



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Greater protection and safety: Saphira Low Migration.

- Wide range of low-migration consumables for food packaging production (inks and coatings, fountain solutions and washing fluids, folding carton glues, lubricants, etc.)
- Carefully selected and tested by experts
- Specially matched to the intended packaging applications (dry or greasy foodstuffs)
- Minimizes potential migration due to spreading.



heidelberg.com/en/saphira-low-migration

Heidelberg USA, Inc.

1000 Gutenberg Drive
Kennesaw, Georgia 30144
Phone 800 437 7388
Email info@heidelberg.com
heidelberg.com/us

Heidelberg Canada Graphic Equipment, Ltd.

5900 Keaton Crescent
Mississauga, Ontario L5R 3K2
Phone 800 363 4800
heidelberg.com/ca

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