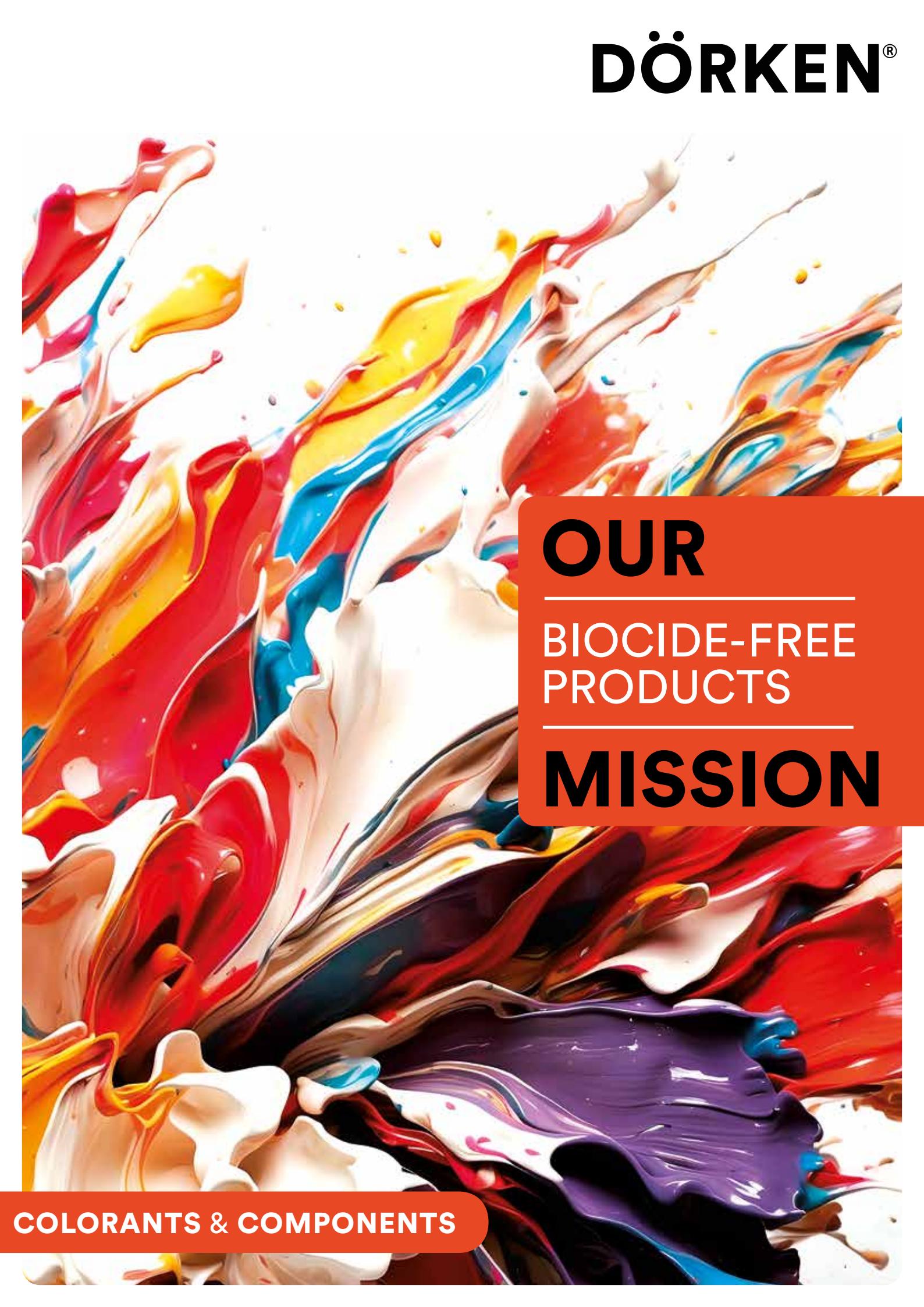


DÖRKEN®



OUR
BIOCIDE-FREE
PRODUCTS
MISSION

COLORANTS & COMPONENTS

COLORANTS & COMPONENTS



DÖRKEN is your reliable partner when it comes to innovation in the field of pigment pastes and customized solutions for tinting systems. Our sector "Colorants and Components" includes pigment pastes and customized solutions for tinting systems. By "Colorants" we mean our different pigment pastes for a wide range of services. With our "Components" we provide the basis for biocide-free aqueous pastes, dispersion paints, varnishes, plasters and other coatings. In addition, we offer you services in the field of microbiology, advice and transfer of know-how when you want to create a new formulation.

COLORANTS PIGMENT PASTES

ECOLOGICAL WATER

is the series of pastes for preservative-free aqueous systems which offers 12 very colorful pigment pastes.

ECOLOGICAL UNIVERSAL

is the universally applicable, preservative-free paste series with 16 color-intensive pigment pastes.

UNIVERSAL

is the solution for water-based and solvent containing coating systems.

AQUA

is the best solution for water-based coatings.

INDUSTRY

is the efficient solution for industrial serial production.

SOLVENT

sets new standards in tinting technology for solvent-based varnishes and glazes for several applications.

COMPONENTS FILLERS AND SERVICES

FILLERS & ADDITIVES

Thanks to our innovative technologies it is possible to formulate biocide-free formulations for coatings and other building materials.

SERVICE PERFECTLY TAILORED TO OUR CUSTOMERS' REQUIREMENTS

We offer our know-how not only for when you want to change your tinting system but also when you wish to become more flexible regarding your purchasing strategy. We are gladly your partner for compatibility tests, product range analysis and training courses.

MICROBIOLOGICAL TESTING SERVICE

Regular tests for contaminants, impurities and germs in the production environment are an integral part of an effective hygiene management to guarantee a hygienic production and consequently a constantly high level of product quality.

COLORANTS

DÖRKEN®

	Poly-Urethane	Silicate paints	Polyvinyl acetate	Pure acrylate	Mineral plasters	2K poly-urethane systems	2K epoxy systems	Melamine systems	Alkyd systems	Linseed oil systems
UNIVERSAL	✓	✓	✓	✓	✓	✓	✓			✓
AQUA	✓	✓	✓	✓	✓	✓				
INDUSTRY						✓	✓	✓	✓	
SOLVENT									✓	✓
ECOLOGICAL W	✓	✓		✓	✓					
ECOLOGICAL U	✓	✓	✓	✓	✓	✓	✓		✓	

The range of the DÖRKEN portfolio comprises of paste systems for aqueous or solvent-based formulations for decorative or industrial purposes – always at a high level of quality. Well-founded advice is an absolute must-have for us at DÖRKEN regardless of whether you intend to purchase

single pastes or entire tinting systems. We put our know-how at your disposal not only when you want to change your tinting system but also when you need advice regarding a change concerning the formulations.

- › standardized and reproducible
- › tight tolerances
- › excellent for use in mixing systems
- › no sedimentation
- › storage-stable
- › stable under microbiological contamination

ECOLOGICAL WATER (ECO-W)



ECOLOGICAL WATER

DÖRKEN® ECOLOGICAL WATER (ECO-W) is the series of pastes for preservative-free aqueous systems and offers 12 very colorful pigment pastes.

The high color intensity of the DÖRKEN® ECOLOGICAL WATER series of tinting pastes which comprise 93% of the NCS color fan guarantees a high coverage capacity. The very efficient pigment pastes impress in the interior and offer a high lightfastness and weather resistance in the exterior with optimised compatibility in several aqueous systems. Clients can always rely on DÖRKEN's consistent quality standards applied from the hygienic management during the production processes to the continuous development of our products.

The DÖRKEN® ECOLOGICAL WATER series of pastes is suitable for pure acrylate, silicate paints, mineral plasters and polyurethane binders. At customers' requests many more color shades are producible.

SPECIAL FEATURES

- › existing mixing plants, shakers and databases can still be used with the liquid paste technology
- › full compatibility with aqueous systems
- › also suitable for factory tinting systems
- › a hygienic and clean container concept rounds off the system by increasing microbiological safety
- › standard shaker times of 1 to 3 minutes
- › suitable for certified tinting in accordance with leading environmental standards
- › meets the requirements of leading environmental standards with regard to preservative-free content, low VOC/SVOC values and general material requirements



SPECIFICATIONS

Color	92.5% : 7.5% transparent basic material	96% : 4% full white basic material	99.5% : 0.5% full white basic material	Color Index	Pigment content	Density (g/ml)*	BFS Data Sheet 26**	Lightfastness tinted product***	Weather resistance tinted product***	Alkali resistance	Acid resistance
	PW 6	ca. 65	2,08-2,16								
	PBk 7	ca. 14	1,20-1,26								
490	WHITE	PW 6	ca. 65	2,08-2,16	1	8	5	5	5	5	5
493	BLACK (MC)	PBk 7	ca. 14	1,20-1,26	2	8	5	5	5	5	5
451	BLUE R	PB 15:2	ca. 20	1,21-1,27	2	8	4-5	5	5	5	5
461	GREEN	PG 7	ca. 30	1,30-1,36	2	8	4-5	5	5	5	5
414	YELLOW G	PY 184	ca. 47	1,85-1,93	1	8	5	5	5	4-5	5
411	YELLOW	PY 74	ca. 43	1,20-1,26	4	6-7	3	5	5	5	5
410	YELLOW OXIDE G	PY 42	ca. 44	1,58-1,64	1	8	5	5	5	5	5
427	ORANGE Y	PY 110	ca. 35	1,24-1,30	2	8	5	5	5	5	5
429	ORANGE R	PY 65	ca. 42	1,24-1,30	4	6-7	3	5	5	5	5
431	RED	PR 254	ca. 40	1,30-1,36	2	8	4	5	5	5	5
430	RED OXIDE Y	PR 101	ca. 58	2,01-2,09	1	8	5	5	5	5	5
441	MAGENTA	PR 122	ca. 24	1,14-1,20	3	7-8	4-5	5	5	5	5

* Density according to DIN EN ISO 2811-3 (oscillation method).
 ** BFS Data Sheet 26 informs about color changes that could occur on the façade.
 *** Lightfastness/Weather resistance: the information is based on the pigment producers' data.

Full shade: 92.5% transparent basic material with 7.5% pigment paste
 Medium mixture: 96% full white basic material with 4% pigment paste
 Light mixture: 99.5% full white basic material with 0.5% pigment paste



ECOLOGICAL UNIVERSAL (ECO-U)

ECOLOGICAL UNIVERSAL

The universal ECO-pastes combine the liquid tinting technology with the latest requirements of the environmental standards regarding biocide-free products. Pigments already proven on the market have been substituted in the proportion 1:1 with preservative-free pigments. A particular characteristic of the pastes is their compatibility with common binders like pure acrylate and polyurethane and special binders like polyvinyl acetate, two-component systems and alkyds. In addition, they always offer good lightfastness and weather resistance both in the exterior and in the interior. Regular tests for contaminants, impurities and germs in the production environment are an integral part of our effective hygiene management. The "drop-in-solution" is continuously tested in our microbiological test laboratory to guarantee that our customers can rely on the usual high DÖRKEN quality standards.

SPECIAL FEATURES

- › 16 universal pigment pastes, suitable for use in water-based and solvent-based coating systems
- › highly compatible with other products
- › standard shaker times from 1 to 3 minutes
- › plug-and-use concepts for existing mixing systems
- › excellent hygiene management and regular microbiological tests
- › suitable for certified tinting in accordance with leading environmental standards
- › meets the requirements of leading environmental standards with regard to preservative-free content, low VOC/SVOC values and general material requirements

SPECIFICATIONS

Color	92.5% : 7.5% transparent basic material	96% : 4% full white basic material	99.5% : 0.5% full white basic material	Color Index	Pigment content	Density (g/ml)*	BFS Data Sheet 26**	Lightfastness tinted product***	Weather resistance tinted product***	Alkali resistance	Acid resistance
111				WHITE	PW 6	ca. 60	1,97-2,07	1	8	8	5
125	■■■	■■■	■■■	BLACK (LC)	PBk 7	ca. 11	1,26-1,32	2	8	5	5
592	■■■	■■■	■■■	BLACK OXIDE	PBk 33	ca. 40	1,78-1,89	1	8	5	5
121	■■■	■■■	■■■	BLUE R	PB 15:2	ca. 35	1,15-1,21	2	8	5	5
123	■■■	■■■	■■■	GREEN	PG 7	ca. 15	1,23-1,29	2	8	5	5
124	■■■	■■■	■■■	GREEN OXIDE	PG 17	ca. 65	2,17-2,24	1	8	4-5	5
112	■■■	■■■	■■■	YELLOW BIVA G	PY 184	ca. 58	1,99-2,09	1	8	4-5	5
502	■■■	■■■	■■■	YELLOW	PY 151	ca. 27	1,17-1,23	3	7-8	4-5	4-5
133	■■■	■■■	■■■	YELLOW	PY 74	ca. 42	1,17-1,22	4	6-7	3	4-5
500	■■■	■■■	■■■	YELLOW OXIDE	PY 42	ca. 59	1,85-2,01	1	8	5	5
115	■■■	■■■	■■■	ORANGE Y	PY 170	ca. 36	1,17-1,23	3	7-8	4	5
117	■■■	■■■	■■■	RED	PR 254	ca. 41	1,20-1,26	2	8	4	5
138	■■■	■■■	■■■	RED OXIDE B	PR 101	ca. 61	2,10-2,22	1	8	5	5
119	■■■	■■■	■■■	RED VIOLET	PR122/PV23	ca. 17	1,06-1,12	3	7-8	4-5	5
114	■■■	■■■	■■■	YELLOW OXIDE TR.	PY 42	ca. 29	1,26-1,32	1	8	5	5
118	■■■	■■■	■■■	RED OXIDE TR.	PR 101	ca. 25	1,27-1,33	1	8	5	5

The ECO-UNIVERSAL configuration can be supplemented with the following ECO-AQUA pastes:

262	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■
274	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■
278	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■	■■■

* Density according to DIN EN ISO 2811-3 (oscillation method).

** BFS Data Sheet 26 informs about color changes that could occur on the façade.

*** Lightfastness/Weather resistance: the information is based on the pigment producers' data.

Full shade: 92.5% transparent basic material with 7.5% pigment paste
Medium mixture: 96% full white basic material with 4% pigment paste
Light mixture: 99.5% full white basic material with 0.5% pigment paste



PRESERVATIVE FREE

UNIVERSAL

UNIVERSAL

DÖRKEN® UNIVERSAL is the best solution for water-based and solvent containing coating systems. Thanks to their wide range of applications, the pastes always satisfy, offering maximum flexibility within the tinting concept.

In addition to very colorful organic pigments DÖRKEN® UNIVERSAL uses a large number of inorganic pigments thus providing you with an ideal choice and infinite composition options for every intended use. This product line of pastes offers an extensive range of colors regardless of the mixing system used, for example for acrylate, alkyd and silicate systems. This means you can achieve optimal results even on a 16-piece mixing system, these results can also be obtained using larger mixing plants.

SPECIAL FEATURES

- › compatible with solvent containing and water-based systems
- › high coverage even when adding less than 7% of paste to transparent basic products
- › suitable for in-plant and Point of Sale tinting for a holistic application in the company
- › wide range of compatible binders (see page 5 for specifics)
- › the ideal combination of very colorful organic pigments and selected inorganic pigments for a wide range of applications
- › high lightfastness according to BFS data sheet 26

SPECIFICATIONS

Color	94,2% : 5,8% transparent basic material		93% : 7% full white basic material		98,6% : 1,4% full white basic material		Color Index	Pigment content	Density (g/ml)*	BFS Data Sheet 26**	Lightfastness tinted product***	Weather resistance tinted product***	Alkali resistance	Acid resistance
	94,2% : 5,8% transparent basic material	93% : 7% full white basic material	98,6% : 1,4% full white basic material	Color	94,2% : 5,8% transparent basic material	93% : 7% full white basic material	98,6% : 1,4% full white basic material							
111	WHITE	PW 6	ca. 60	1,97-2,07	1	8	5	5	5					
125	BLACK (LC)	PBk 7	ca. 11	1,26-1,32	2	8	5	5	5					
145	BLACK (MC)	PBk 7	ca. 22	1,13-1,19	2	8	5	5	5					
592	BLACK OXIDE	PBk 33 PR 122/ PV 23	ca. 39	1,78-1,89	1	8	5	5	5					
119	RED VIOLET	ca. 18	1,06-1,12	3	7-8	4-5	5	5	5					
121	BLUE R	PB 15:2	ca. 33	1,15-1,21	2	8	5	5	5					
142	ULTRAMARINE BLUE	PB 29	ca. 47	1,40-1,48	1	8	5	5	5					
144	TURQUOISE COBALT	PB 28	ca. 45	1,61-1,69	1	8	5	5	5					
123	GREEN	PG 7	ca. 15	1,23-1,29	2	8	4-5	5	5					
124	GREEN OXIDE	PG 17	ca. 63	2,17-2,24	1	8	4-5	5	5					
112	YELLOW BIVA G	PY 184	ca. 56	1,99-2,09	1	8	4-5	5	4-5					
502	YELLOW	PY 154	ca. 39	1,17-1,23	3	6-7	4-5	5	5					
133	YELLOW	PY 74	ca. 44	1,17-1,22	4	6-7	3	4-5	4-5					
500	YELLOW OXIDE	PY 42	ca. 59	1,85-2,01	1	8	5	5	5					
115	ORANGE Y	PY 170	ca. 40	1,17-1,23	3	7-8	4	5	5					
541	RED OXIDE Y	PR 101	ca. 60	2,02-2,15	1	8	8	5	5					
117	RED	PR 254	ca. 40	1,20-1,26	2	8	4	5	5					
138	RED OXIDE B	PR 101	ca. 61	2,10-2,22	1	8	5	5	5					
159	MAGENTA	PR 122	ca. 18	1,07-1,11	3	7-8	4-5	5	5					
120	MAGENTA OXIDE	PV 15	ca. 56	1,49-1,57	1	8	4-5	5	4-5					
114	YELLOW OXIDE TRANSP.	PY 42	ca. 28	1,26-1,32	1	8	5	5	5					
118	RED OXIDE TRANSP.	PR 101	ca. 25	1,27-1,33	1	8	5	5	5					

The ECO-UNIVERSAL configuration can be supplemented with the following ECO-AQUA pastes:

262	BLUE COBALT R	PB 28	ca. 65	2,05-2,15	1	8	5	5	5	
274	ORANGE OXIDE	PY 42	ca. 58	1,85-1,95	1	8	5	5	5	
278	RED OXIDE Y	PR 101	ca. 61	2,02-2,12	1	8	5	5	5	

* Density according to DIN EN ISO 2811-3 (oscillation method).

** BFS Data Sheet 26 informs about color changes that could occur on the façade.

*** Lightfastness/Weather resistance: the information is based on the pigment producers' data.

Full shade: 94,2% transparent basic material with 5,8% pigment paste

Medium mixture: 93% full white basic material with 7% pigment paste

Light mixture: 98,6% full white basic material with 1,4% pigment paste

AQUA

AQUA

DÖRKEN® AQUA is the solution for water-based coatings.

A wide selection of inorganic and organic pigments enables the tinting of aqueous binder systems like acrylate and styrene-acrylate for varnishes and façade paints as well as plasters based on silicone, silicate or synthetic resin, lime-cement plaster and lime-gypsum plaster.

The new generation of pigments guarantees the best possible color stability for your façade - naturally in compliance with all applicable environmental standards and guidelines.

SPECIAL FEATURES

- › especially compatible with water-based pastes for aqueous acrylate dispersions, silicate paints and mineral plasters
- › particularly recommended for aqueous plasters – the plaster does not change viscosity
- › good alkali and acid resistance
- › special inorganic configuration
- › maximum lightfastness and weather resistance thanks to particular inorganic pigments or special high-quality organic pigments granting long-lasting bright colors on the façade
- › latest formulations

SPECIFICATIONS

94,2% : 5,8% transparent basic material
93% : 7% full white basic material
98,6% : 1,4% full white basic material

Color

Color Index

Pigment content

Density (g/ml)*

BFS Data Sheet 26**

Lightfastness tinted product***

Weather resistance tinted product***

Alkali resistance

Acid resistance

Color	Color Index	Pigment content	Density (g/ml)*	BFS Data Sheet 26**	Lightfastness tinted product***	Weather resistance tinted product***	Alkali resistance	Acid resistance
854	PW 6	ca. 65	2,02-2,12	1	8	5	5	5
848	PBk 7	ca. 18	1,23-1,29	2	8	5	5	5
839	PBk 7	ca. 30	1,30-1,36	2	8	5	5	5
847	PBk 33	ca. 55	1,98-2,08	1	8	5	5	5
843	PB 15:3	ca. 35	1,19-1,25	2	8	4-5	5	5
846	PB 29	ca. 54	1,55-1,63	1	8	5	5	4-5
262	PB 28	ca. 65	2,05-2,15	1	8	5	5	5
845	PB 28	ca. 48	1,80-1,90	1	8	5	5	5
849	PG 7	ca. 30	1,37-1,45	2	8	4-5	5	5
861	PG 17	ca. 70	2,34-2,46	1	8	5	5	5
850	PG 50	ca. 67	2,16-2,28	1	8	5	5	5
856	PY 184	ca. 60	2,17-2,29	1	8	4-5	5	4-5
860	PY 74	ca. 26	1,35-1,42	4	6-7	3	4-5	4-5
855	PY 138	ca. 40	1,35-1,42	2	8	4	5	5
837	PY 110	ca. 30	1,32-1,38	2	8	5	4-5	5
857	PY 216	ca. 50	2,02-2,12	1	8	5	5	4-5
863	PO 85	ca. 65	1,93-2,03	1	8	4-5	4-5	2-3
859	PY 42	ca. 54	1,80-1,90	1	8	5	5	5
274	PY 42	ca. 58	1,85-1,95	1	8	5	5	5
819	PR 168	ca. 36	1,24-1,30	2	8	5	5	5
853	PR 254	ca. 35	1,32-1,38	2	8	4	5	5
278	PR 101	ca. 59	2,02-2,12	1	8	5	5	5
822	PV 15	ca. 60	1,53-1,61	1	8	4-5	5	4-5
852	PR 122	ca. 20	1,18-1,24	3	7-8	4-5	5	5
862	PR 101	ca. 65	2,21-2,33	1	8	5	5	5
296	PG 17 IR	ca. 67	2,36-2,48	1	8	5	5	5

* Density according to DIN EN ISO 2811-3 (oscillation method).

** BFS Data Sheet 26 informs about color changes that could occur on the façade.

*** Lightfastness/Weather resistance: the information is based on the pigment producers' data.

Full shade: 94,2% transparent basic material with 5,8% pigment paste

Medium mixture: 93% full white basic material with 7% pigment paste

Light mixture: 98,6% full white basic material with 1,4% pigment paste

INDUSTRY

INDUSTRY

DÖRKEN® INDUSTRY is our efficient solution for industrial serial productions. The carefully selected pigments impress with their resistance to numerous influencing factors including high heat resistance and a Volatile Organic Compounds (VOC) content which is in line with the market.

DÖRKEN® INDUSTRY offers you an extensive range of colors for solvent containing coating systems for every mixing plant, for example with long and short oil alkyds, polyesters, two-component polyurethane, epoxy and nitrocellulose systems.

SPECIAL FEATURES

- › excellent coverage
- › high heat resistance for two-component polyurethane and two-component epoxy systems and melamine systems
- › excellent lightfastness and weather resistance
- › suitable for spray application
- › compatible with corrosion protection systems, no reduction of protection according to DIN EN 12944
- › suitable for in-plant and Point of Sale tinting

SPECIFICATIONS

93%: 7% transparent basic material
94%: 3%: 3% transparent basic material
94%: 0.3%: 5.7% transparent basic material

Color	Color Index		Pigment content	Density (g/ml)*	BFS Data Sheet 26**	Lightfastness tinted product***	Weather resistance tinted product***	Heat resistance in C°
	PW 6	ca. 70						
690			WHITE	PW 6	ca. 70	2,04-2,24	1	8
692	■	■	BLACK (LC)	PBk 7	ca. 14	1,15-1,28	2	8
693	■	■	BLACK (HC)	PBk 7	ca. 24	1,15-1,22	2	8
643	■	■	VIOLET	PV 23	ca. 9	1,01-1,22	3	8
672	■	■	BLUE BR	PB 15:2	ca. 20	1,11-1,36	2	8
675	■	■	BLUE	PB 15:4	ca. 16	1,11-1,31	2	8
660	■	■	GREEN	PG 7	ca. 24	1,15-1,41	2	8
601	■	■	YELLOW BIVA G	PY 184	ca. 18	1,25-1,45	1	8
604	■	■	CITRON YELLOW	PY 138	ca. 47	1,21-1,35	3	8
602	■	■	YELLOW BROWN	PBr 24	ca. 70	2,05-2,28	1	8
603	■	■	ORANGE YELLOW	PY 138 / PY 139	ca. 30	1,15-1,35	3	8
600	■	■	YELLOW OXIDE	PY 42	ca. 64	1,80-2,00	1	8
621	■	■	ORANGE	PO 73	ca. 28	0,99-1,11	2	7-8
620	■	■	ORANGE	PO 36	ca. 31	1,02-1,22	2	7-8
644	■	■	RED	PR 254	ca. 43	1,07-1,28	2	8
645	■	■	RED	PR 170	ca. 41	1,01-1,22	4	6
646	■	■	RED INT	PR 112	ca. 25	1,07-1,31	4	6
642	■	■	RED OXIDE Y	PR 101	ca. 66	2,02-2,22	1	8
641	■	■	MAGENTA	PR 122	ca. 19	1,02-1,22	3	7-8

* Density according to DIN EN ISO 2811-3 (oscillation method).

** BFS Data Sheet 26 informs about color changes that could occur on the façade.

*** Lightfastness/Weather resistance: the information is based on the pigment producers' data.

Full shade: 93% transparent basic material with 7% pigment paste
Medium mixture: 94% transparent basic material with 3% pigment paste + 3% 690 WHITE
Light mixture: 94% transparent basic material with 0.3% pigment paste + 5.7% 690 WHITE

SOLVENT

SOLVENT

DÖRKEN® SOLVENT sets standards in tinting technology for solvent containing varnish and transparent varnish systems – and that for various areas of application.

The very colorful selection of organic and inorganic pigments offers high coverage and a wide range of colors of maximum brilliance as well as high lightfastness and weather resistance. The pastes are easy to incorporate and very compatible with numerous solvent containing binder systems, including long and short oil alkyd resins and air-drying oils.

The addition of transparent iron oxides to solvent containing transparent varnishes enables the reproduction of authentic real wood colors.

SPECIAL FEATURES

- › compatible with solvent containing thin to thick-layer transparent wood varnishes, oils and varnishes
- › selection of very colorful organic and inorganic pigments for bright real wood colors
- › high coverage even when adding less than 10% of pigment paste to transparent basic materials
- › UV radiation resistant and non-yellowing in long-term tests
- › useable with UNIVERSAL and AQUA pastes in the same mixing plant

SPECIFICATIONS

93% : 7% transparent basic material
93% : 4.9% : 2.1% transparent basic material
93% : 0.25% : 6.75% transparent basic mat.

Color	Color Index	Pigment content	Density (g/ml)*	BFS Data Sheet 26**		Lightfastness tinted product***		Weather resistance tinted product***		Alkali resistance		Acid resistance	
				1	8	5	5	5	5	5	5	5	5
311	PW 6	ca. 74	2,07-2,24	1	8	5	5	5	5	5	5	5	
345	PBk 7	ca. 13	1,07-1,13	2	8	5	5	5	5	5	5	5	
339	PV 23	ca. 13	1,03-1,08	3	8	4	5	5	5	5	5	5	
321	PB 15:2	ca. 16	1,19-1,24	2	8	5	5	5	5	5	5	5	
343	PG 7	ca. 20	1,11-1,17	2	8	4-5	5	5	5	5	5	5	
312	PY 184	ca. 60	1,98-2,14	1	8	4-5	5	4-5	5	5	5	5	
333	PY 74	ca. 40	1,04-1,08	4	6-7	3	4	5	5	5	5	5	
354	PY 42	ca. 65	1,76-1,91	1	8	5	5	5	5	5	5	5	
315	PY 170	ca. 36	1,01-1,05	3	7-8	4	5	5	5	5	5	5	
317	PR 254	ca. 36	1,04-1,08	2	8	4	5	5	5	5	5	5	
358	PR 101	ca. 62	1,75-1,89	1	8	5	5	5	5	5	5	5	
359	PR 122	ca. 20	0,98-1,02	3	7-8	4-5	5	5	5	5	5	5	
751	PY 42	ca. 45	1,28-1,34	1	8	5	5	5	5	5	5	5	
752	PR 101	ca. 37	1,30-1,36	1	8	5	5	5	5	5	5	5	

* Density according to DIN EN ISO 2811-3 (oscillation method).

** BFS Data Sheet 26 informs about color changes that could occur on the facade.

*** Lightfastness/Weather resistance: the information is based on the pigment producers' data.

Full shade: 93% transparent basic material with 7% pigment paste

Medium mixture: 93% transparent basic material with 4.9% pigment paste + 2.1% 311 WHITE

Light mixture: 93% transparent basic material with 0.25% pigment paste + 6.75% 311 WHITE

THE PROFESSIONALS IN TINTING SYSTEMS



COLORANTS

18

DÖRKEN®

IR PIGMENT PASTES FOR DARK FAÇADES WITHOUT CRACKS

Brightly colored and dark façade paints are extremely popular with building owners and architects. However, they bear a special challenge. The darker a house façade is painted the warmer the surface gets and when temperatures rise over 80°C cracks may appear in the plaster system or the insulating material may suffer deformation. DÖRKEN therefore offers the IR pigment paste 296 for the mixing of dark colors. The infrared pigment contained in the IR pigment paste 296 reflects the invisible thermal radiation and in this way reduces the heating-up of the surface. This IR pigment paste can be added to water-based façade paints, water-based varnishes and transparent wood varnishes.

WHY IS DÖRKEN® IR PIGMENT PASTE 296 SO SPECIAL?

- › water-based formulation
- › IR pigment replaces black pigments in traditional formulations
- › no heating-up of the façades
- › compatible with the DÖRKEN® UNIVERSAL and DÖRKEN® AQUA series of pastes

COLOR SHADES MIXED WITH IR PIGMENT PASTE 296 BLACK OXIDE NIR:

approx. RAL 5004	
approx. RAL 6009	
approx. RAL 7012	
approx. RAL 7015	
approx. RAL 7016	
approx. RAL 7021	
approx. RAL 7022	
approx. RAL 8017	

REAL WOOD AND COLORED SHADES FOR TRANSPARENT WOOD VARNISHES

Transparent wood varnishes as well as the organic building material have special requirements concerning protection. All color shades have to correspond to the natural wood grain. They have an intensive effect and accentuate wood grain, color and structure of the wooden surface without covering it. Moreover, the paste shall not have any effect on the alkyd binders. In this regard DÖRKEN offers the ideal solution for water-based and solvent containing transparent varnishes and oils.

PRODUCT CHARACTERISTICS

- › intensive and homogeneous covering which leaves the wood grain visible
- › easy to mix with different kinds of transparent varnishes
- › VOC values in line with the market
- › longer stability to weathering

DÖRKEN® TINTING CONCENTRATES

Universally applicable water-based transparent iron oxide pastes

114 YELLOW OXIDE TRANSP.

118 RED OXIDE TRANSP.

Real wood colors for solvent containing transparent wood varnishes using solvent-based (iron oxide) pastes:

751 YELLOW OXIDE TRANSP.

752 RED OXIDE TRANSP.

COMPONENTS

DÖRKEN®

DÖRKEN® DSP

In order to obtain sustainable and environmentally sound products the production process has to be concerted in all fields. This also includes the technology behind the pastes. Our "Components" make this technology available to the market.

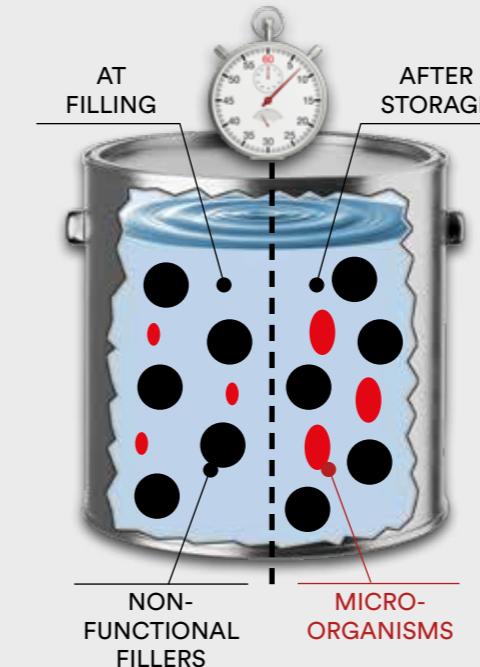
DÖRKEN® DSP (DÖRKEN Stabilization Package) is a functional preservative-free filler that is used as a technological basis to create a suboptimal environment for microorganisms in water-based formulations.

- › A stable, high pH value of > 12 with a buffering effect,
- › the controlled solubility of the filler with a depot effect
- › and the controlled salt load, which can be continuously released into the aqueous phase, create an environment in which the final formulation remains stable over the long term as no micro-organisms are formed.

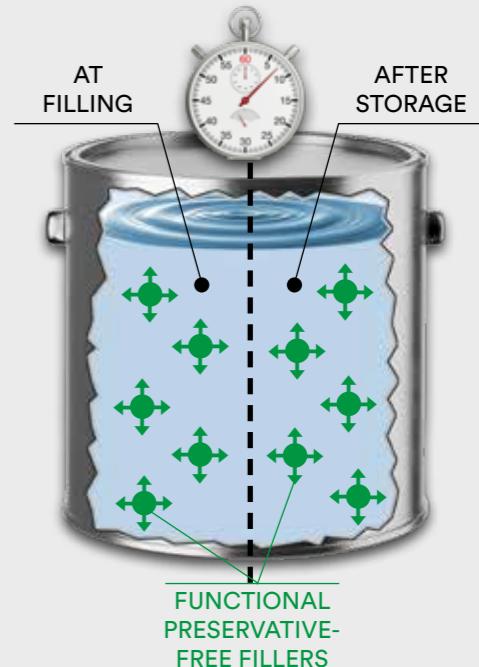
The DÖRKEN Stabilization Package combines:

- › Components: The innovative filler technology from DÖRKEN
- › Development: Expertise in the development of water-based formulations
- › Microbiology and quality: With a hygienic production and quality assurance process

Water-based, preservative-free formulation without additional functional KF-fillers



Water-based, preservative-free formulation with additional functional KF-fillers and microbiologically hygienic production process



MICRO-BIOLOGY

HOLISTIC HYGIENE MANAGEMENT

The increasing importance of hygiene during the production process is underlined by the implementation of innovative technologies which enable a real-time control and fast reactions to improve cleanliness and security of the working spaces.

Regular tests for contaminants, impurities and germs in the production environment are an integral part of an effective hygiene management to guarantee a hygienic production and consequently a

constantly high level of product quality. The continuous monitoring of hygienic standards plays a decisive role to minimize potential health risks and guarantee the quality of manufactured products.

- › internal and external hygiene audits for companies
- › status quo monitoring with swab-tests and risk factor analysis
- › staff hygiene training
- › determination of the number of microbes as a measurement for the microbiological stability of coating systems in products: dispersion paints, varnishes, transparent varnishes and tinting pastes
- › isolation and identification of existing contamination
- › water quality monitoring to avoid risks during production
- › germ load determination in formulations
- › paint film and coating tests as measurement for the resistance against algae and fungi

MICROBIOLOGICAL LABORATORY

Scan for more information



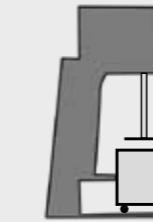
Portfolio
Microbiology/
Hygiene Management

DÖRKEN®

PROCESS OF PRODUCTION



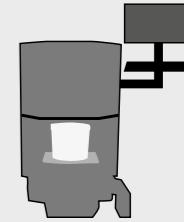
1 Prepare and petreat raw materials



2 Production and adjustment of specified properties



3 Quality and release



4 Filling, labelling, packing of finished goods

- › Tests of paste compatibility in our customers' systems
- › Weathering tests (for example in regard to lightfastness and weather resistance)
- › Provision of calibration series for extensive color collections using Datacolor and Largo Innova
- › Realization of selected shades for example for transparent wood varnishes
- › Color space and tinting costs analysis

UNIVERSALLY APPLICABLE

BIOCIDE-FREE COATING PERFECTLY TAILORED
TO YOUR REQUIREMENTS.



DÖRKEN®

Dörken Coatings GmbH & Co. KG
D-58313 Herdecke
Wetterstraße 58

Tel. +49 (0)2330 63 243
coatings@doerken.de
www.doerken.de

