



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	Mela-mine systems	Alkyd systems	Linseed oil sys-tems
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

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

	92.5% : 7.5% transparent basic material	96% : 4% full white basic material	99.5% : 0.5% 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
111				WHITE	PW 6	ca. 60	1,97-2,07	1	8	8	5	5
125				BLACK (LC)	PBk 7	ca. 11	1,26-1,32	2	8	5	5	5
592				BLACK OXIDE	PBk 33	ca. 40	1,78-1,89	1	8	5	5	5
121				BLUE R	PB 15:2	ca. 35	1,15-1,21	2	8	5	5	5
123				GREEN	PG 7	ca. 15	1,23-1,29	2	8	5	5	5
124				GREEN OXIDE	PG 17	ca. 65	2,17-2,24	1	8	4-5	5	5
112				YELLOW BIVA G	PY 184	ca. 58	1,99-2,09	1	8	4-5	5	4-5
502				YELLOW	PY 151	ca. 27	1,17-1,23	3	7-8	4-5	4-5	4-5
133				YELLOW	PY 74	ca. 42	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. 36	1,17-1,23	3	7-8	4	5	5
117				RED	PR 254	ca. 41	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
119				RED VIOLET	PR122/PV23	ca. 17	1,06-1,12	3	7-8	4-5	5	5
114				YELLOW OXIDE TR.	PY 42	ca. 29	1,26-1,32	1	8	5	5	5
118				RED OXIDE TR.	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: 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

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 tinted product***	
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							
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	4-5							
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
854				WHITE	PW 6	ca. 65	2,02-2,12	1	8	5	5	5
848				BLACK (LC)	PBk 7	ca. 18	1,23-1,29	2	8	5	5	5
839				BLACK (HC)	PBk 7	ca. 30	1,30-1,36	2	8	5	5	5
847				BLACK OXIDE	PBk 33	ca. 55	1,98-2,08	1	8	5	5	5
843				BLUE G	PB 15:3	ca. 35	1,19-1,25	2	8	4-5	5	5
846				ULTRAMARINE BLUE	PB 29	ca. 54	1,55-1,63	1	8	5	5	4-5
262				BLUE COBALT R	PB 28	ca. 65	2,05-2,15	1	8	5	5	5
845				TURQUOISE COBALT	PB 28	ca. 48	1,80-1,90	1	8	5	5	5
849				GREEN	PG 7	ca. 30	1,37-1,45	2	8	4-5	5	5
861				GREEN OXIDE	PG 17	ca. 70	2,34-2,46	1	8	5	5	5
850				GREEN COBALT	PG 50	ca. 67	2,16-2,28	1	8	5	5	5
856				YELLOW BIVA G	PY 184	ca. 60	2,17-2,29	1	8	4-5	5	4-5
860				YELLOW	PY 74	ca. 26	1,35-1,42	4	6-7	3	4-5	4-5
855				CITRON YELLOW	PY 138	ca. 40	1,35-1,42	2	8	4	5	5
837				ORANGE G	PY 110	ca. 30	1,32-1,38	2	8	5	4-5	5
857				ZINC ORANGE	PY 216	ca. 50	2,02-2,12	1	8	5	5	4-5
863				ORANGE OXIDE	PO 85	ca. 65	1,93-2,03	1	8	4-5	4-5	2-3
859				YELLOW OXIDE	PY 42	ca. 54	1,80-1,90	1	8	5	5	5
274				ORANGE OXIDE	PY 42	ca. 58	1,85-1,95	1	8	5	5	5
819				RED Y	PR 168	ca. 36	1,24-1,30	2	8	5	5	5
853				RED	PR 254	ca. 35	1,32-1,38	2	8	4	5	5
278				RED OXIDE Y	PR 101	ca. 59	2,02-2,12	1	8	5	5	5
822				MAGENTA OXIDE	PV 15	ca. 60	1,53-1,61	1	8	4-5	5	4-5
852				MAGENTA	PR 122	ca. 20	1,18-1,24	3	7-8	4-5	5	5
862				RED OXIDE B	PR 101	ca. 65	2,21-2,33	1	8	5	5	5
296				BLACK OXIDE NIR	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°
690				WHITE	PW 6	ca. 70	2,04-2,24	1	8	5	200
692				BLACK (LC)	PBk 7	ca. 14	1,15-1,28	2	8	5	200
693				BLACK (HC)	PBk 7	ca. 24	1,15-1,22	2	8	5	200
643				VIOLET	PV 23	ca. 9	1,01-1,22	3	8	4	200
672				BLUE BR	PB 15:2	ca. 20	1,11-1,36	2	8	4	200
675				BLUE	PB 15:4	ca. 16	1,11-1,31	2	8	5	200
660				GREEN	PG 7	ca. 24	1,15-1,41	2	8	4-5	200
601				YELLOW BIVA G	PY 184	ca. 18	1,25-1,45	1	8	4-5	200
604				CITRON YELLOW	PY 138	ca. 47	1,21-1,35	3	8	4	200
602				YELLOW BROWN	PBr 24	ca. 70	2,05-2,28	1	8	4	200
603				ORANGE YELLOW	PY 138 / PY 139	ca. 30	1,15-1,35	3	8	4	200
600				YELLOW OXIDE	PY 42	ca. 64	1,80-2,00	1	8	4-5	180
621				ORANGE	PO 73	ca. 28	0,99-1,11	2	7-8	4-5	n.A.
620				ORANGE	PO 36	ca. 31	1,02-1,22	2	7-8	4-5	160
644				RED	PR 254	ca. 43	1,07-1,28	2	8	4	200
645				RED	PR 170	ca. 41	1,01-1,22	4	6	3	180
646				RED INT	PR 112	ca. 25	1,07-1,31	4	6	3	160
642				RED OXIDE Y	PR 101	ca. 66	2,02-2,22	1	8	5	200
641				MAGENTA	PR 122	ca. 19	1,02-1,22	3	7-8	4-5	200

* 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		
311				WHITE	PW 6	ca. 74	2,07-2,24	1	8	5	5	5
345				BLACK (LC)	PBk 7	ca. 13	1,07-1,13	2	8	5	5	5
339				VIOLETT	PV 23	ca. 13	1,03-1,08	3	8	4	5	5
321				BLUE	PB 15:2	ca. 16	1,19-1,24	2	8	5	5	5
343				GREEN	PG 7	ca. 20	1,11-1,17	2	8	4-5	5	5
312				LEMON	PY 184	ca. 60	1,98-2,14	1	8	4-5	5	4-5
333				YELLOW	PY 74	ca. 40	1,04-1,08	4	6-7	3	4	5
354				OCHER	PY 42	ca. 65	1,76-1,91	1	8	5	5	5
315				ORANGE	PY 170	ca. 36	1,01-1,05	3	7-8	4	5	5
317				RED	PR 254	ca. 36	1,04-1,08	2	8	4	5	5
358				TERRACOTTA	PR 101	ca. 62	1,75-1,89	1	8	5	5	5
359				MAGENTA	PR 122	ca. 20	0,98-1,02	3	7-8	4-5	5	5
751				YELLOW OXIDE TRANSPARENT	PY 42	ca. 45	1,28-1,34	1	8	5	5	5
752				RED OXIDE TRANSPARENT	PR 101	ca. 37	1,30-1,36	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 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 PRO- FESSIONALS IN TINTING SYSTEMS

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 been concerted in all fields. This also includes the technology behind the pastes. Our “Components” make this technology available to the market.

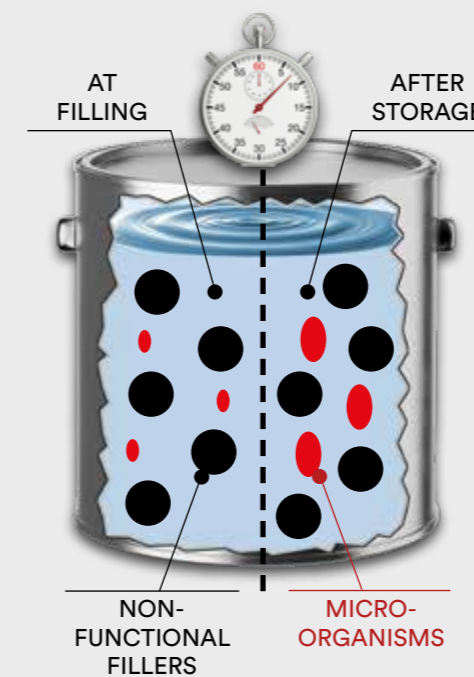
DÖRKEN® DSP (DÖRKEN Stabilization Package) is a functional preservative-free filler that is used as a technological basis to create a suboptimal environment for microorganisms in water-based formulations.

- › 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 microorganisms are formed.

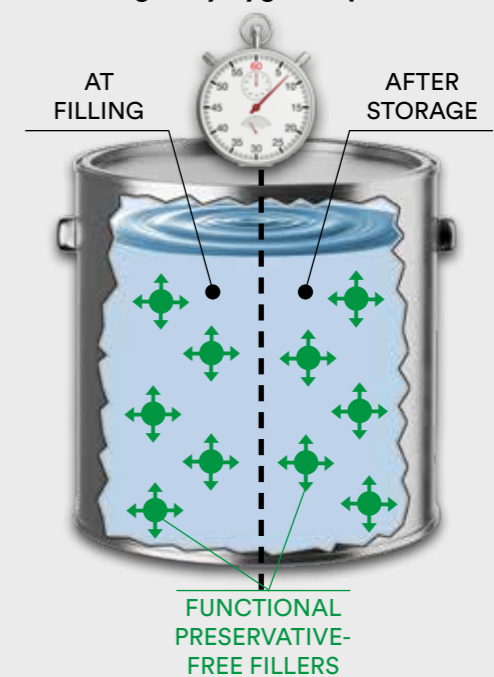
The DÖRKEN Stabilization Package combines:

- › 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

DÖRKEN®

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



DÖRKEN

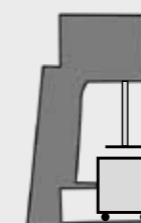


**Portfolio
Microbiology/
Hygiene Management**

PROCESS OF PRODUCTION



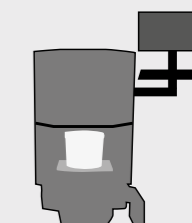
1 Prepare and pretreat raw materials



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.



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