

DÖRKEN®

**THE PROFESSIONALS
IN TINTING SYSTEMS**



TINTING SOLUTIONS

PIGMENT PASTES

DÖRKEN® : We are your reliable partner when it comes to pigment pastes and customized solutions for tinting systems. Our product selection includes paste systems for a wide range of services. Whether for aqueous or solvent containing applications, decorative or industrial purposes – all our solutions are high-quality solutions.

Well-founded advice is an absolute must 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 wish to render your sourcing strategy more flexible.

Feel free to get in touch with us. Together we will take the next step in the direction of the tinting system perfectly tailored to your special requirements!

5 PRODUCT LINES

UNIVERSAL

AQUA

ECOLOGICAL

INDUSTRY

SOLVENT

TINTING

- › standardized and reproducible
- › tight tolerances
- › perfect for use in mixing systems
- › no settling, no sedimentation

COMPATIBILITY

- › Different pastes can be used at the same time in just one mixing system
- › UNIVERSAL and AQUA pastes can be combined for solvent containing and aqueous coating materials like varnish systems and dispersions
- › UNIVERSAL and SOLVENT pastes can be combined for aqueous and solvent containing coating materials like wood glazes and oils

Colour Design

Opting for the DÖRKEN® tinting systems is always a decision in favour of a comprehensive package of service features.

We carry out a **product** line analysis on the basis of your existing tinting system and then advise you on the possible increases in terms of efficiency. This determines which of our paste systems is the most suitable for you – whether the aqueous, the solvent containing or the universal pastes. Are you interested in preservative-free pastes? We can also offer solutions in this regard. On the basis of the product line and colour range analysis and according to your requirements we develop a concept for the optimization of your colour recipes and then **define all main parameters**.

Before providing colour matching sequences we undertake extensive **compatibility tests** to determine which pigment preparations lead to the desired results when added to the basic material. We are experts in using the software solutions by Largo Innova and datacolor to **provide colour matching sequences**.

DÖRKEN® currently manages **more than 450 colour fan collections**. These collections include not only the NCS index and RAL but also the colour fans currently well-established all over Europe, such as the two colour fans which are offered by the DÖRKEN® company: the colour fan for interior wall paints LUCITE® Spirit of Colours and the façade paint colour fan LUCITE® Design A1.

If you should need a fast solution we are also able to provide initial **guide recipes** whose high performance is comparable to that of any other competitive product.

We are pleased to share our extensive operating experience and substantial know-how with you giving special **training courses** focussing on the practical application of mixing system software solutions such as datacolor, Largo Innova, Fast & Fluid Mixing System Technology, COROB Colour Production Systems and others.

Mixing system technology

The current colour mixing systems are an indispensable tool for the production of colourful paints and varnishes at any time and anywhere. Tinting pastes play a key role in **the field of colour mixing systems**. In combination with the most modern dosing technology they determine the quality of the mixed products.

Individual colour mixing systems can be created according to the user's requirements from an almost unlimited number of products, colour mixing recipes, paste configurations and mixing system types. At the same time digital technology is developing at a fast pace. Thanks to the **online connection of mixing systems** data and statistics, reports and sales figures can be generated in real time.

What DÖRKEN® offers you is your own individual colour mixing system. Our specialized staff will carry out the installation of the system and you will be offered an in-company training for the handling of your system. Regular maintenance carried out once a year is **included** in our service. Our mixing system software shows you how expensive the mixed product will be. Furthermore, an online connection to a **Complaint Service** can be used to contact our Customer Service directly. Here you will get instant support and the improved recipe will be transferred to your system immediately.

UNIVERSAL

UNIVERSAL

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

In addition to very colourful 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 colours regardless of the mixing system used, for example for acrylate, silicone 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 different systems, solvent containing and aqueous systems
- › high coverage even when adding less than 7% of paste to transparent basic products
- › suitable for in-plant and Point of Sale tinting
- › perfect for polyurethane, silicate, polyvinyl acetate and façade paints
- › the ideal combination of very colourful organic pigments and selected inorganic pigments for a wide range of applications
- › high light stability and weather resistance 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	Colour	Color Index	Pigment content (%)	Density (g/ml)	BFS Data Sheet 26 *	Light stability tinted prod. **	Weather resistance tinted pr. ***	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
145	■	■	■	BLACK (MC)	PBk 7	ca. 22	1,13-1,19	2	8	5	5	5
592	■	■	■	BLACK OXIDE	PBk 33	ca. 39	1,78-1,89	1	8	5	5	5
119	■	■	■	RED VIOLET	PR 122/ PV 23	ca. 18	1,06-1,12	3	7-8	4-5	5	5
139	■	■	■	VIOLET	PV 23	ca. 17	1,07-1,13	3	8	4	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. 11	1,23-1,29	2	8	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	2	8	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	2	8	4	5	5
541	■	■	■	RED OXIDE Y	PR 101	ca. 60	2,02-2,15	1	8	5	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	2,12-2,22	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 TRANSPARENT	PY 42	ca. 28	1,26-1,32	1	8	5	x	x
118				RED OXIDE TRANSPARENT	PR 101	ca. 25	1,27-1,33	1	8	5	x	x

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

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

*** Stability/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 poly-acrylate and styrene-acrylate for varnishes and façade paints as well as plasters based on silicone, silicate and/or synthetic resin, lime-cement plaster and lime-gypsum plaster.

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

SPECIAL FEATURES

- › especially compatible 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 light stability and weather resistance thanks to particular inorganic pigments or special high-quality organic pigments granting long-lasting bright colours 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	Colour	Color Index	Pigment content (%)	Density (g/ml)	BFS Data Sheet 26 *	Light stability tinted prod. **	Weather resistance tinted pr. ***	Alkali resistance	Acid resistance
854				WHITE	PW 6	ca. 65	2,02-2,12	1	N/A	N/A	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
865	■	■	■	VIOLET	PV 23	ca. 10	1,37-1,44	3	8	4	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	4-5	5	4-5
262	■	■	■	BLUE COBALT R	PB 28	ca. 65	2,05-2,15	1	8	5	5	5
845	■	■	■	TURQUOISE COBALT	PB 25	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	3-4	6-7	3	4	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	7-8	4-5	5	4-5
863	■	■	■	ORANGE OXIDE	PO 85	ca. 65	1,93-2,03	1	8	4-5	5	4-5
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	1,20-1,26	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
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 colour changes that could occur on the façade.

*** Stability/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

ECOLOGICAL



ECOLOGICAL

DÖRKEN® ECOLOGICAL is the series of pastes for preservative-free aqueous systems and offers 13 very colourful pigment pastes. The high colour intensity of the tinting pastes which comprise a wide colour spectrum (93% of the NCS colour fan) guarantees a high coverage capacity. Used for applications in the interior the very efficient pigment pastes impress with a high light stability and weather resistance and with their good compatibility with our clients' 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.

DÖRKEN® ECOLOGICAL is suitable for pure acrylate, acrylate and polyurethane binder combinations.

SPECIAL FEATURES

- › preservative-free pastes for the certified tinting of aqueous systems according to the guidelines of the Blue Angel Eco-label, the Nordic Swan Eco-label and the EU Ecolabel
- › existing mixing plants and infrastructure can be used
- › 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 1-3 minutes

SPEZIFIKATIONEN

92.5% : 7.5% transparent basic material
 96% : 4% full white basic material
 98.6 : 1.4 full white basic material

	Colour	Color Index	Pigment content (%)	Density (g/ml)	BFS Data Sheet 26 *	Light stability tinted prod. **	Weather resistance tinted prod. ***	Alkali resistance ****	Acid resistance
490	WHITE	PW 6	ca. 65	2,08-2,16	1	8	8	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	3	6-7	3	4-5	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 colour changes that could occur on the façade.

*** Stability/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



PRESERVATIVE FREE

INDUSTRY



INDUSTRY

DÖRKEN® INDUSTRY is our efficient solution for industrial serial production. 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 colours 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, melamine and nitrocellulose systems
- › excellent light stability 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

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

With the integration of transparent iron oxides real wood colours for solvents containing transparent wood varnishes can be perfectly reproduced.

SPECIAL FEATURES

- › compatible with solvent containing thin to thick-layer transparent wood varnishes, oils and varnishes
- › selection of very colourful organic and inorganic pigments for bright real wood colours
- › 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

SPEZIFIKATIONEN

	93% : 7% transparent basic material	93% : 4.9% + 2.1% transparent basic	93% : 0.25% + 6.75% transparent basic	Colour	Color Index	Pigment content (%)	Density (g/ml)	Light stability tinted prod. *	Weather resistance tinted prod. ***	VOC content ***
311				WHITE	PW 6	ca. 74	2,07-2,22	8	5	230
345				BLACK (LC)	PBk 7	ca. 13	1,07-1,13	8	5	220
339				VIOLETT	PV 23	ca. 13	1,03-1,08	8	4	260
321				BLUE	PB 15:2	ca. 16	1,19-1,24	8	5	260
343				GREEN	PG 7	ca. 20	1,10-1,17	8	4-5	n.a.
312				LEMON	PY 184	ca. 60	1,98-2,14	8	4-5	250
333				YELLOW	PY 74	ca. 40	1,04-1,08	6-7	3	220
354				OCHER	PY 42	ca. 65	1,76-1,91	8	5	220
315				ORANGE	PY 170	ca. 36	1,01-1,05	7-8	4	280
317				RED	PR 254	ca. 36	1,04-1,08	8	4	260
358				TERRACOTTA	PR 101	ca. 62	1,75-1,89	8	5	n.a.
359				MAGENTA	PR 122	ca. 20	0,98-1,02	7-8	4-5	250
751				YELLOW OXIDE TRANSPARENT	PY 42	ca. 45	1,28-1,34	8	5	210
752				RED OXIDE TRANSPARENT	PR 101	ca. 37	1,30-1,36	8	5	210

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

*** Stability/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% WHITE (311)

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



INVENTIVE SPIRIT IN GERMANY

For DÖRKEN® solution oriented approaches, efficiency and quality always come first. DÖRKEN® is considered a pioneer of innovative and ecological products in line with the „Zeitgeist“. Our research is always state of the art and keeps an eye on trends in order to continue developing new products.

The entire product range is produced in Germany and from there distributed worldwide. We produce all our products with „German thoroughness“. This is proven by the excellent results in various fields of application.

SUSTAINABILITY

RECYCLED CONTAINERS

Using recycled containers DÖRKEN® contributes to the protection of the environment. Recycled containers are an important component of DÖRKEN®'s sustainability strategy because they encourage the re-use of plastic materials and as a result conserve resources. This reduces our ecological footprint and we contribute to a long-term conservation of our natural resources.



For the sake of the environment

For reasons of sustainability DÖRKEN® focusses on re-cycled containers (70%). Using reprocessed raw materials carbon dioxide can be reduced when producing containers. Quality is of course still guaranteed and shaker and transport stability are given without restrictions. Due to stability reasons lids and cans are still produced using new material.



**Discover
expertise**



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