

heubach

HEUCOSIN[™], HEUCOSIN[™] SPECIAL &

COLOR AND PERFORMANCE SOLUTIONS

HEUCO[®] FIT LR





The HEUCO[®] FIT Concept

HEUCO[®] FIT is a pigment preparation concept consolidating Heubach's extensive pigment and pigment preparation know-how into ultimate and comprehensive pigment preparation lines offering customized color and performance solutions.

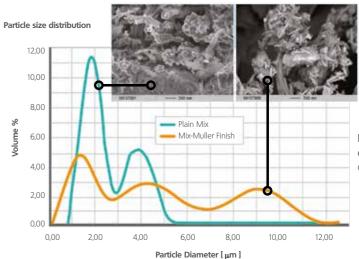
Our HEUCO[®] FIT Concept Product Lines

HEUCOSIN[™]: Solutions for RAL- and customized colors. These additive-free preparations are used in paints, coatings and plastics.

HEUCOSIN[™] Special: RAL- and customized color solutions which are recommended for high layer thickness systems such as floor the HEUCO® FIT preparations also exhibit coatings.

HEUCO® FIT LR: Direct replacements for chrome yellow and molybdate red pigments, suitable for coatings as well as for plastics applications.

The resulting physical interlocking of the This allows to achieve perfectly uniform coof the predispersed pigments as well as the by the industrial paint manufacturers. floating and flooding phenomenon later during film formation. outstanding batch-to-batch consistency.



Unique Technology

The very specific properties of HEUCOSIN™ preparations result from a unique finish technology. A combined co-finishing process including the mix mulling technology allows for intensive mixing and grinding.

pigment surfaces minimizes the separation lors with the existing milling equipment used

It is worthwile to mention that this ease of In comparison to ordinary pigment blends processing is based on the physical modification of the pigment.

> Consequently, there is no negative influence on general film properties which is frequently observed when using ionic dispersing additives.

Mix Mulling Technology easy dispersion even at construction sites

HEUCOSIN™

The HEUCOSIN[™] products are ready-to-use HEUCOSIN[™] pigment preparations not only and customized multi-pigment preparations exhibit very good light and weather fastness which are predispersed and adjusted to the but also excellent resistance to solvents, most frequently used shades.

All grades exhibit universal processing cha- justed to all kinds of required fastness and racteristics and can easily be dispersed in resistance properties. most common binder systems.

To achieve an exceptionally homogeneous structure the different components of a co- Formulation costs with HEUCOSIN™ are lolor shade are powdery mixed and milled in a three step process resulting in interlocked handling and testing of several monopigpigments.

Excellent fastness properties

acids and alkalis. Additionally, they are ad-

We are able to adjust HEUCOSIN[™] pigment preparations to any color shade with all kind of required fastness and resistance properties on customer demands.

Customer demands

Value-in-use

wer when compared to the total costs of ments or monopigmented pastes on a commercial scale.





			Fastness Properties				
RAL	Shade	Name	Weather ¹⁾ fullshade	Acid 2)	Alkali 2)	Heat ³⁾ [°C]	
1001		G 6191	4 - 5	5	5	210	
1007		G 5891	4 - 5	5	5	*	
1019		G 2186	4 - 5	5	5	210	

1023	G 7632	4 - 5	5	5	*
1028	G 7604	5	5	5	*
2000	G 7626	5	5	5	*
2004	G 7627	5	5	5	*
3000	G 14676	4	5	5	220
3002	G 14677	4	5	5	220

3020	G 14697	4 - 5	5	5	220
5002	G 1737	4	5	5	140
5002	G 2171	4	5	5	180
5003	G 2017 N	4	5	5	170

5010	G 5303 N	4 - 5	5	5	160
5012	G 14555	4 - 5	5	5	150
5014	G 3276 N	4 - 5	5	5	180
5015	G 1780 N	4 - 5	5	5	140
6001	G 6861	4 - 5	5	5	160
6002	G 6862	4	5	5	*
6005	G 6865	4	5	5	*
6010	G 6860	4 - 5	5	5	*
6011	G 1901	4 - 5	5	5	210

1) Weather fastness: Tested in water based automotive system. Rating with Weather fastness: lested in Water based automotive system. Rating with gray scale after 1000 h accelerated weathering: 1=poor, 5=excellent.
Acid/alkali resistance: Pigment was dipped into hydrochloric acid (10%) or soda solution (10%). Rating with gray scale: 1=poor, 5=excellent.
Heat resistance: Tested in alkyd/melamine system.

			Fa	stness F	Propertie	2S
RAL	Shade	Name	Weather ¹⁾ fullshade	Acid 2)	Alkali 2)	Heat ³⁾ [°C]
6018		G 7671	4 - 5	5	3 - 4	*
7000		G 1802 N	4 - 5	5	5	200
7001		G 1882	4 - 5	5	5	180
7005		G 1927	4 - 5	5	5	200
7011		G 2033 N	4 - 5	5	5	220
7012		G 14329	4 - 5	5	5	180
7016		G 1978	4 - 5	5	5	220
7023		G 2216 N	4 - 5	5	5	200
7030		G 2229	4 - 5	5	5	200
7031		G 1792	4 - 5	5	5	220
7032		G 7748 N	4 - 5	5	5	180
7035		G 1803	4 - 5	5	5	160
8012		G 3489	4 - 5	5	5	220
8015		G 4489 N	5	5	5	230
8017		G 1700 N	4 - 5	5	5	220
	Other HI	EUCOSIN [™]	- Prepa	ration	5	
Red		G 7001	4 - 5	5	5	200
Blue		G 5000	4 - 5	5	5	160
Green		G 5005 N	4 - 5	5	5	200
Grey		G 14739	4 - 5	5	5	180
Black		G 5205	4 - 5	5	5	240
Black		G 5955	5	5	5	240

Suitability for food contact applications on request.

Due to limitation of printing process some slight variations between the color as illustrated may be observed.

*Product contains diarylide pigments. These pigments should not be used at processing temperatures exceeding 200 °C due to potential cleavage to 3,3'-dichlorobenzidine (DCB) under these conditions.



Polymer floor coatings

systems especially for polymer floor coatings. distributed unevenly in the direction per-In most cases the desired color shades can pendicular to the pigment surface (rub-out All grades exhibit universal processing chaonly be obtained by blending color pigments test). These effects are frequently observed in racteristics and can easily be dispersed in with significant differences regarding surface thickfilm formulations. characteristics and specific weights.

As a consequence they tend to separate during the film forming process. This wellknown phenomenon is either called floating (horizontal separation) or flooding (vertical separation).

HEUCOSIN™ Special pigment preparations The first causes undesirable surface texturing The HEUCOSIN™ Special products are reais our principal product line developed to (Bénard cells) whereas the latter alters the dy-to-use pigment preparations which have meet the specific requirements of thickfilm color shade as a result of pigments being been pre-dispersed and adjusted to the most commonly used RAL shades.

Multi-pigment preparations

solvent-free EP, PU, PMMA systems and waterborne EP formulations..

Tomato Red G 10345	Blend	Blue Grey G 6528 N	Blend
Leaf Green G 6557 N	Blend	Concrete Grey G 6556 N	Blend

Minimized floating & flooding due to interlocking of the pigment surfaces.

			EP Coatings	DA	PMMA	Weather ¹⁾ fullshade	Acid 2)	Alkali »
Product	Full Shade	RAL	Ар	olication Fie	elds	Fast	ness Prope	erties
HEUCOSIN™ Special Beige G 10121 (Beige RAL 1001)		1001	••	••	••	5	5	5
HEUCOSIN™ Special Yellow G 6514 N (Sand yellow RAL 1002)		1002	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Beige G 6515 N (Brown beige RAL 1011)		1011	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Yellow G 6530 N (Olive yellow RAL 1020)		1020	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Red G 10345 (Tomato red RAL 3013)		3013	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Blue G 10248 (Azure blue RAL 5009)		5009	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Green G 6557 N (Leaf green RAL 6002)		6002	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Green G 6516 N (Pale green RAL 6021)		6021	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Grey G 6555 N (Silver grey RAL 7001)		7001	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Grey G 10256 (Basalt grey RAL 7012)		7012	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Grey G 10120 (Anthracite grey RAL 7016)		7016	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Grey G 6556 N (Concrete grey RAL 7023)		7023	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Grey G 6517 N (Stone grey RAL 7030)		7030	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Grey G 6528 N (Blue grey RAL 7031)		7031	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Grey G 6518 N (Pebble grey RAL 7032)		7032	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Grey G 6531 N (Cement grey RAL 7033)		7033	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Grey G 10139 (Light grey RAL 7035)		7035	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Grey G 10140 (Dust grey RAL 7037)		7037	••	••	••	4 - 5	5	5
HEUCOSIN™ Special Grey G 10135 (Agate grey RAL 7038)		7038	••	••	••	4 - 5	5	5
		Recommended	Poter	ntial e Jse	> Sp	pecial shade	s available o	on request

Due to limitation of printing process some slight variations between the color as illustrated may be observed.

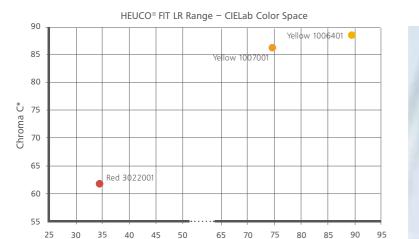
Weather fastness: Tested in water based automotive system. Rating with gray scale after 1000 h accelerated weathering: 1=poor, 5=excellent.
Acid/alkali resistance: Pigment was dipped into hydrochloric acid (10%) or soda solution (10%). Rating with gray scale: 1=poor, 5=excellent.

HEUCO® FIT LR

pigment preparations have been developed industrial coatings, since good substrate meet most of the requirements of general for direct 1:1 replacement of chrome yellow hiding by a one-coat application of the industrial and plastics applications including and molybdate red pigments. In selecting the paint with low layer thickness is necessary. agricultural, construction and earthmoving pigments, the focus was on a good balance The visual assessment of the full shade coat equipment (ACE). Thus HEUCO® FIT LR perof the colorimetric properties and the hiding confirms the good conformity found colorime- mits smart - i.e. rapid and cost-effective forpower in the near-full shade color range.

The "HEUCO[®] FIT Lead Replacement" dry This is particularly interesting in the area of These cost-designed pigment preparations trically.

mulation.



Hue angle h*









Products for Coatings		F	Fastness Properties		Application			
	Full Shade	Weather ¹⁾	Overpainting ²⁾	Heat Resistance [°C] ³⁾	General Industrial	Plastics		
HEUCO $^{\odot}$ FIT LR Yellow 1006401 $^{\rm (4)}$		4 - 5	5	150	••			
HEUCO® FIT LR Yellow 1006402 $^{\rm 4)}$		4 - 5	4	150	••			
HEUCO® FIT LR Yellow 1007001 $^{\rm (4)}$		5	5	150	••			
HEUCO® FIT LR Yellow 1007002 $^{\rm 4)}$		4 - 5	4	150	••			
HEUCO® FIT LR Red 3022001		5	5	170	••	•		
HEUCO® FIT LR Red 3022002		5	5	170	••	•		
		Fastness Properties Applica				cation		
Products for Plastics	Full Shade	Weather ⁵⁾	Migration ⁶⁾	Heat Resistance [°C] ⁷⁾	General Industrial	Plastics		
HEUCO® FIT LR Yellow 1006401P		3 - 4	5	280		••		
HEUCO® FIT LR Yellow 1007001P		3 - 4	5	280		••		
Due to the limitation of printing process, some slight variations between the color as illustrated may be observed.								

Weather fastness: Tested in vater based automotive system. Rating with gray scale after 2000 h accelerated weathering: 1=poor, 5=excellent.
Overpainting: Tested in 2K acrylic system with 30 minutes baking time at 80 °C. Rating with gray scale: 1=poor, 5=excellent.
Heat resistance: Tested in 2K acrylic system.
Pigments partially contain P.Y. 83 and should not be used at processing temperatures exceeding 200°C due to potential cleavage to 3,3' - dichlorobenzidine (DCB) under these conditions.
Weather fastness: Tested in LDPE system. Rating with gray scale after 2000 h accelerated weathering: 1=poor, 5=excellent.
Migration: Tested in platicized PVC system. Rating with gray scale: 1=poor, 5=excellent.
Heat resistance: Tested in HDPE system.



Our Service

first. As a supplier of high-quality pigment role both in coatings and plastics applicaand pigment preparation solutions we sup- tions. port our customers anywhere where pigments are in use.

regionally we provide our customers with the technical support essential for the impleand solutions.

Fully equipped technical laboratories and centers enable us to carry out tests for all relevant applications, such as printing inks, paints and coatings, including corrosion protection, coil and powder coatings and plastics.

At Heubach, customer satisfaction comes Custom color adjustments play a significant

We have extensive expertise in the development of colors for a variety of plastics, paint With active service centers both globally and and coating systems. Depending on fastness properties, application or processing requirements, we can deliver the right color for mentation of customer-specific requirements your application, plastic compounds or even a specific paint system.





HEUBACH GROUP

Marketing And Sales Coatings Phone +49 5326 520 (Germany)

de.sales@heubachcolor.com www.heubach.com

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. We make no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency, or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of our products for its particular application. *Nothing included in this information waives any of our General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing our products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact us.

*For sales to customers located within the United States and Canada the following applies in addition NO EXPRESS OR IMPLIED WARRANTY IS MADE OF THE MERCHANTABILITY, SUITABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE OF ANY PRODUCT OR SERVICE. 02/2022

TrademarkTrademark registered in many countries

COA EN | 09.2022

BRIGHTER COLORS. BRIGHTER LIFE.