

**HEUCOSIN™, HEUCOSIN™ SPECIAL &  
HEUCO® FIT LR  
COLOR AND PERFORMANCE SOLUTIONS**







### 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 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 pigment surfaces minimizes the separation of the predispersed pigments as well as the floating and flooding phenomenon later during film formation.

In comparison to ordinary pigment blends the HEUCO® FIT preparations also exhibit outstanding batch-to-batch consistency.

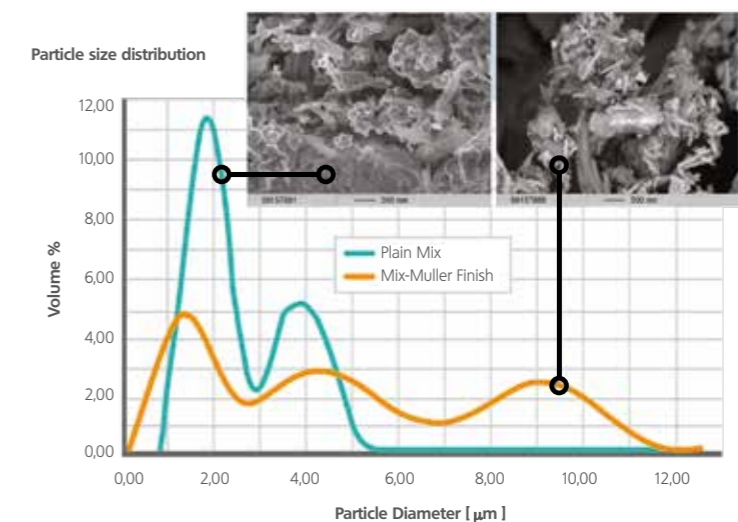
This allows to achieve perfectly uniform colors with the existing milling equipment used by the industrial paint manufacturers.

It is worthwhile to mention that this ease of 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.

### 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.



Mix Mulling Technology easy dispersion even at construction sites



## HEUCOSIN™

The HEUCOSIN™ products are ready-to-use and customized multi-pigment preparations which are predispersed and adjusted to the most frequently used shades.

All grades exhibit universal processing characteristics and can easily be dispersed in most common binder systems.

To achieve an exceptionally homogeneous structure the different components of a color shade are powdery mixed and milled in a three step process resulting in interlocked pigments.



## Excellent fastness properties

HEUCOSIN™ pigment preparations not only exhibit very good light and weather fastness but also excellent resistance to solvents, acids and alkalis. Additionally, they are adjusted to all kinds of required fastness and resistance properties.

## Value-in-use

Formulation costs with HEUCOSIN™ are lower when compared to the total costs of handling and testing of several monopigments or monopigmented pastes on a commercial scale.



## Customer demands

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



RAL	Shade	Name	Fastness Properties			
			Weather <sup>1)</sup> fullshade	Acid <sup>2)</sup>	Alkali <sup>2)</sup>	Heat <sup>3)</sup> [°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 gray scale after 1000 h accelerated weathering: 1=poor, 5=excellent.
- 2) Acid/alkali resistance: Pigment was dipped into hydrochloric acid (10%) or soda solution (10%). Rating with gray scale: 1=poor, 5=excellent.
- 3) Heat resistance: Tested in alkyd/melamine system.

RAL	Shade	Name	Fastness Properties			
			Weather <sup>1)</sup> fullshade	Acid <sup>2)</sup>	Alkali <sup>2)</sup>	Heat <sup>3)</sup> [°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 HEUCOSIN™- Preparations

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

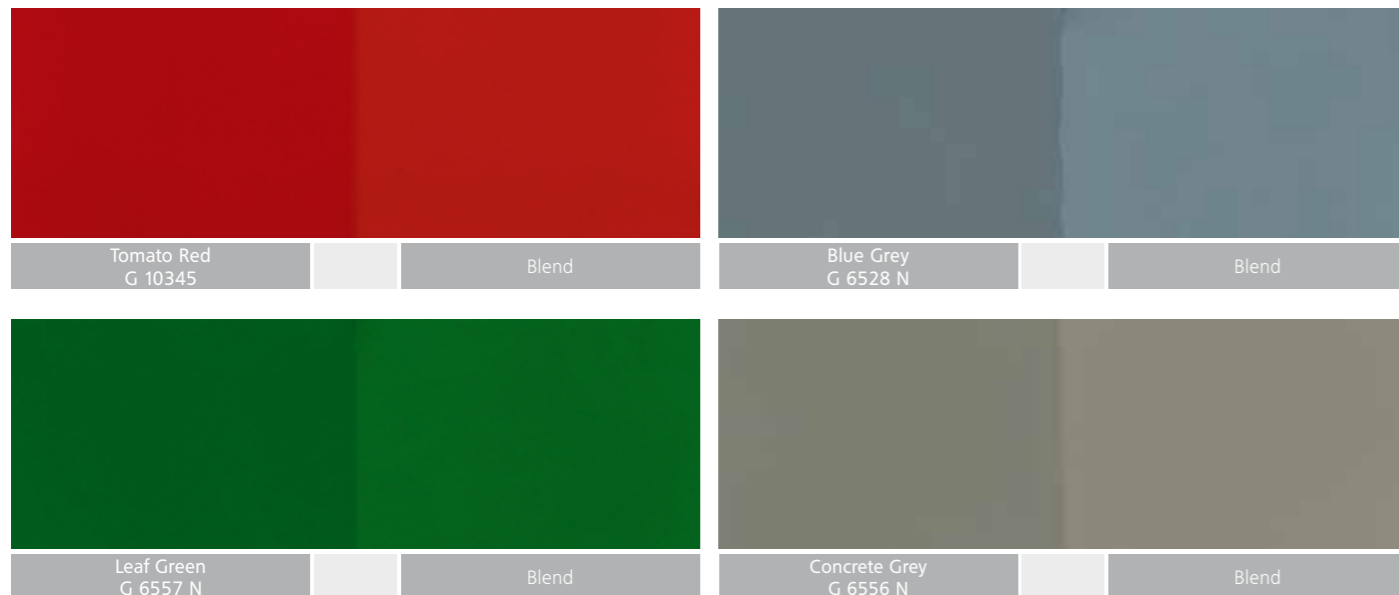
HEUCOSIN™ Special pigment preparations is our principal product line developed to meet the specific requirements of thickfilm systems especially for polymer floor coatings. In most cases the desired color shades can only be obtained by blending color pigments with significant differences regarding surface characteristics and specific weights.

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

The first causes undesirable surface texturing (Bénard cells) whereas the latter alters the color shade as a result of pigments being distributed unevenly in the direction perpendicular to the pigment surface (rub-out test). These effects are frequently observed in thickfilm formulations.

### Multi-pigment preparations

The HEUCOSIN™ Special products are ready-to-use pigment preparations which have been pre-dispersed and adjusted to the most commonly used RAL shades. All grades exhibit universal processing characteristics and can easily be dispersed in solvent-free EP, PU, PMMA systems and waterborne EP formulations.



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

Product	Full Shade	RAL	Application Fields			Fastness Properties		
			EP Coatings	PU	PMMA	Weather <sup>1)</sup> fullshade	Acid <sup>2)</sup>	Alkali <sup>2)</sup>
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 Potential Use <sup>1)</sup> Special shades available on request

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

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

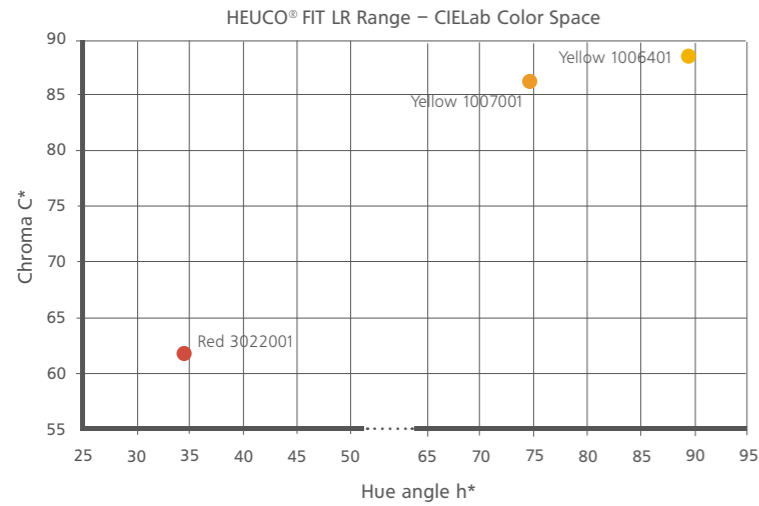


## HEUCO® FIT LR

The „HEUCO® FIT Lead Replacement“ dry pigment preparations have been developed for direct 1:1 replacement of chrome yellow and molybdate red pigments. In selecting the pigments, the focus was on a good balance of the colorimetric properties and the hiding power in the near-full shade color range.

This is particularly interesting in the area of industrial coatings, since good substrate hiding by a one-coat application of the paint with low layer thickness is necessary. The visual assessment of the full shade coat confirms the good conformity found colorimetrically.

These cost-designed pigment preparations meet most of the requirements of general industrial and plastics applications including agricultural, construction and earthmoving equipment (ACE). Thus HEUCO® FIT LR permits smart – i.e. rapid and cost-effective formulation.



Products for Coatings	Full Shade	Fastness Properties			Application	
		Weather <sup>1)</sup>	Overpainting <sup>2)</sup>	Heat Resistance [°C] <sup>3)</sup>	General Industrial	Plastics
HEUCO® FIT LR Yellow 1006401 <sup>4)</sup>		4 - 5	5	150	● ●	
HEUCO® FIT LR Yellow 1006402 <sup>4)</sup>		4 - 5	4	150	● ●	
HEUCO® FIT LR Yellow 1007001 <sup>4)</sup>		5	5	150	● ●	
HEUCO® FIT LR Yellow 1007002 <sup>4)</sup>		4 - 5	4	150	● ●	
HEUCO® FIT LR Red 3022001		5	5	170	● ●	●
HEUCO® FIT LR Red 3022002		5	5	170	● ●	●

Products for Plastics	Full Shade	Fastness Properties			Application	
		Weather <sup>5)</sup>	Migration <sup>6)</sup>	Heat Resistance [°C] <sup>7)</sup>	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. ● ● Our Recommendation ● Potential Use

- 1) Weather fastness: Tested in water based automotive system. Rating with gray scale after 2000 h accelerated weathering: 1=poor, 5=excellent.
- 2) Overpainting: Tested in 2K acrylic system with 30 minutes baking time at 80 °C. Rating with gray scale: 1=poor, 5=excellent.
- 3) Heat resistance: Tested in 2K acrylic system.
- 4) 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.
- 5) Weather fastness: Tested in LDPE system. Rating with gray scale after 2000 h accelerated weathering: 1=poor, 5=excellent.
- 6) Migration: Tested in plasticized PVC system. Rating with gray scale: 1=poor, 5=excellent.
- 7) Heat resistance: Tested in HDPE system.





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