

# HEUCOSIN™ & HEUCOSIN™ SPECIAL & HEUCO® FIT LR

DRY PIGMENT PREPARATIONS FOR COATING APPLICATIONS





## THE HEUCO® FIT CONCEPT

HEUCO® FIT is a pigment preparation concept consolidating Sudarshan'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.





# 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. The resulting physical interlocking of the pigment surfaces minimizes the separation of

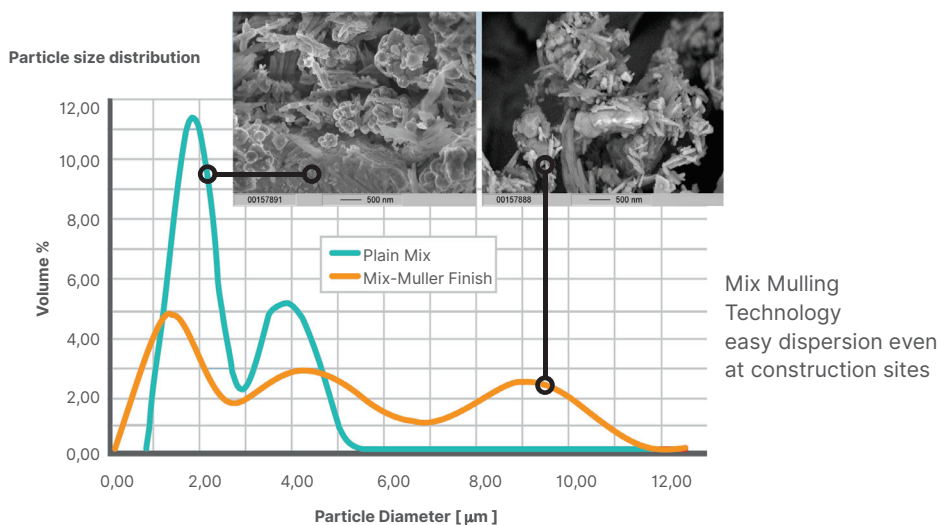
the predispersed pigments as well as the floating and flooding phenomenon later during film formation

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.





## 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				
			Wear- ther	Over- pain- ting	Acid	Alkali	Heat [°C]
1001		G 6191	4 - 5	5	5	5	180
1007		G 5891	4	5	5	4	180
1018		G 7670	4	5	5	3	200
1019		G 2186	4 - 5	5	5	5	180
1021		G 7632	4	5	5	3	200
1023		G 7632	4	5	5	3	200
1028		G 7604	4	5	5	5	200
2000		G 7626	4	4 - 5	5	5	180
2004		G 7627	4	5	5	5	200
3000		G 14676	4 - 5	5	5	5	200
3002		G 14677	4 - 5	5	5	5	200
3003		G 14678	3 - 4	5	5	5	180
3020		G 14697	4 - 5	5	5	5	200
5002		G 1737	4 - 5	5	5	5	160
5002		G 2171	4 - 5	5	5	5	160
5003		G 2017 N	4	5	5	5	160
5007		G 1782	4 - 5	5	5	5	180
5010		G 5303 N	4 - 5	5	5	5	180
5012		G 14555	4 - 5	5	5	5	180
5014		G 3276 N	4 - 5	5	5	5	180
5015		G 1780 N	4 - 5	5	5	5	180
6001		G 6861	4 - 5	5	5	5	160
6002		G 6862	4	5	5	5	200
6005		G 6865	4 - 5	5	5	5	180
6010		G 6860	4 - 5	5	5	5	180
6011		G 1901	4 - 5	5	5	5	180

RAL	Shade	Name	Fastness Properties				
			Wear- ther	Over- pain- ting	Acid	Alkali	Heat [°C]
6018		G 7671	4 - 5	5	5	3 - 4	200
7000		G 1802 N	4 - 5	5	5	5	180
7001		G 1882	4 - 5	5	5	5	180
7005		G 1927	4 - 5	5	5	5	180
7011		G 2033 N	4 - 5	5	5	5	180
7012		G 14329	4 - 5	5	5	5	200
7016		G 1978	4 - 5	5	5	5	180
7023		G 2216 N	4 - 5	5	5	5	180
7030		G 2229	4 - 5	5	5	5	180
7031		G 1792	4 - 5	5	5	5	180
7032		G 7748 N	4 - 5	5	5	5	180
7035		G 1803	4 - 5	5	5	5	180
8012		G 3489	4 - 5	5	5	5	180
8015		G 4489 N	5	5	5	5	180
8017		G 1700 N	4 - 5	5	5	5	180
Other HEUCOSIN™- Preparations							
Red		G 14500	4	5	5	5	200
Red		G 7001	4 - 5	5	5	5	200
Blue		G 5000	4 - 5	5	5	5	200
Green		G 5005 N	4 - 5	5	5	5	200
Grey		G 14739	4 - 5	5	5	5	180
Black		G 5205	5	5	5	5	200
Black		G 5955	5	5	5	5	200

Suitability for food contact applications on request.

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



## 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

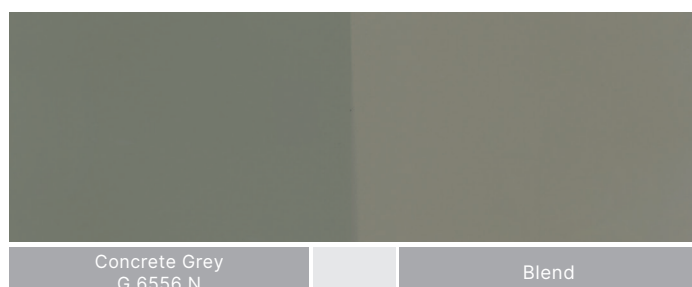
phenomenon is either called floating (horizontal separation) or flooding (vertical separation).

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.

## MULTIPIGMENT 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	Light	Weather	Acid	Alkali
HEUCOSIN™ Special Beige G 10121 (Beige RAL 1001)		1001	●●	●●	●●	8	5	5	5
HEUCOSIN™ Special Yellow G 6514 N (Sand yellow RAL 1002)		1002	●●	●●	●●	8	5	5	5
HEUCOSIN™ Special Beige G 6515 N (Brown beige RAL 1011)		1011	●●	●●	●●	8	5	5	5
HEUCOSIN™ Special Yellow G 6530 N (Olive yellow RAL 1020)		1020	●●	●●	●●	8	5	5	5
HEUCOSIN™ Special Red G 10345 (Tomato red RAL 3013)		3013	●●	●●	●●	7 - 8	4 - 5	5	5
HEUCOSIN™ Special Blue G 10248 (Azure blue RAL 5009)		5009	●●	●●	●●	7 - 8	4	5	5
HEUCOSIN™ Special Green G 6557 N (Leaf green RAL 6002)		6002	●●	●●	●●	7 - 8	4 - 5	5	5
HEUCOSIN™ Special Green G 6516 N (Pale green RAL 6021)		6021	●●	●●	●●	8	5	5	5
HEUCOSIN™ Special Grey G 6555 N (Silver grey RAL 7001)		7001	●●	●●	●●	8	5	5	5
HEUCOSIN™ Special Grey G 10256 (Basalt grey RAL 7012)		7012	●●	●●	●●	7 - 8	4	5	5
HEUCOSIN™ Special Grey G 10120 (Anthracite grey RAL 7016)		7016	●●	●●	●●	8	5	5	5
HEUCOSIN™ Special Grey G 6556 N (Concrete grey RAL 7023)		7023	●●	●●	●●	8	5	5	5
HEUCOSIN™ Special Grey G 6517 N (Stone grey RAL 7030)		7030	●●	●●	●●	8	5	5	5
HEUCOSIN™ Special Grey G 6528 N (Blue grey RAL 7031)		7031	●●	●●	●●	7 - 8	4 - 5	5	5
HEUCOSIN™ Special Grey G 6518 N (Pebble grey RAL 7032)		7032	●●	●●	●●	8	5	5	5
HEUCOSIN™ Special Grey G 6531 N (Cement grey RAL 7033)		7033	●●	●●	●●	8	5	5	5
HEUCOSIN™ Special Grey G 10139 (Light grey RAL 7035)		7035	●●	●●	●●	8	5	5	5
HEUCOSIN™ Special Grey G 10140 (Dust grey RAL 7037)		7037	●●	●●	●●	8	5	5	5
HEUCOSIN™ Special Grey G 10135 (Agate grey RAL 7038)		7038	●●	●●	●●	8	5	5	5

●● Recommended ● Potential Use > Special shades available on request

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





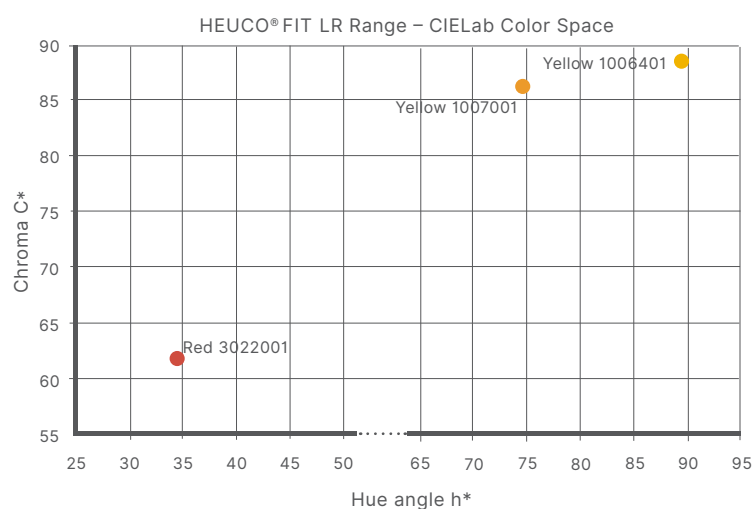
## HEUCO® FIT LR

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	General Industrial	Plastics
HEUCO® FIT LR Yellow 1006401 <sup>4)</sup>		4	5	150	● ●	
HEUCO® FIT LR Yellow 1006402 <sup>4)</sup>		3 - 4	4	150	● ●	
HEUCO® FIT LR Yellow 1007001 <sup>4)</sup>		4	5	150	● ●	
HEUCO® FIT LR Yellow 1007002 <sup>4)</sup>		4	4	150	● ●	
HEUCO® FIT LR Red 3022001		4 - 5	5	170	● ●	●
HEUCO® FIT LR Red 3022002		4 - 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

<sup>1)</sup> Weather Fastness: Data on resistance to artificial xeno weathering (DIN EN ISO 16474-2, procedure A, cycle 1) is determined in a 2-comp. polyurethane test system after 2000 hours weathering time. Rating of change in color in accordance with DIN EN ISO 105-A02.

<sup>2)</sup> Overpainting: Bleeding was rated, of a white alkyd-melamine topcoat on a pigmented 2-comp. acrylate base coat in accordance with DIN EN ISO 105-A02.

<sup>3)</sup> Heat Resistance: Pigment was exposed at different temperatures up to 250°C in a 2-comp. acrylate base coat for 30 minutes. Temperature, above which, a noticeable shade change can be observed.

<sup>4)</sup> 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.

<sup>5)</sup> Weather Fastness: Data on resistance to artificial xeno weathering (DIN EN ISO 4892-2, cycle 1, climate M) is determined in a rigid PVC test system after 2000 hours weathering time. Rating of change in color in accordance with DIN EN ISO 105-A02.

<sup>6)</sup> Migration: Migration was tested in a plasticized PVC system and rated in accordance with DIN EN ISO 105-A02.

<sup>7)</sup> Heat Resistance: Pigment was exposed in an injection moulding process at different temperatures up to 300°C in a HDPE testing system according to DIN EN 12877-2, procedure B.



## Our Service

At Sudarshan, customer satisfaction comes first. As a supplier of high-quality pigment and pigment preparation solutions we support our customers anywhere where pigments are in use.

With active service centers both globally and regionally we provide our customers with the technical support essential for the implementation of customer-specific requirements and 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.

Custom color adjustments play a significant role both in coatings and plastics applications.

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







**Sudarshan Chemical Industries Limited**

Registered Office: Eleven West Panchshil, 7th Floor, Survey No 25, Near PAN Card Club Road, Baner, Pune 411 045, India

T: +91 20 6829 7610 | E: [contact@sudarshan.com](mailto:contact@sudarshan.com) | [www.sudarshan.com](http://www.sudarshan.com) | CIN.: L24119PN1951PLC008409

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

™ Trademark

® Trademark registered in many countries

10/2025/SCI/HEUCOSIN/001(Interim)