



Design for your floor coatings

HEUCOSIN™ Special

heubach
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Polymer floor coatings

HEUCOSIN™ Special and HEUCOSIN™ Special Plus pigment preparations are the two principal product lines 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 especially 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 and PMMA systems. HEUCOSIN™ Special Plus is especially designed for waterborne EP formulations.

Unique finish technology

The very specific properties of HEUCOSIN™ Special preparations are the result of a unique finish technology. A combined co-finishing process is used in what is known as mix mulling which includes both, intensive mixing and grinding.

The effects obtained bring about interlocking of the pigment surfaces thus minimizing the separation of the pre-dispersed pigments and the floating and flooding phenomenon later during the film formation.

In comparison to straight pigment blends the HEUCOSIN™ Special preparations also exhibit outstanding batch-to-batch consistency which enables the user to create colors which are perfectly uniform. This can even be achieved with simple stirring equipment often found at construction sites.

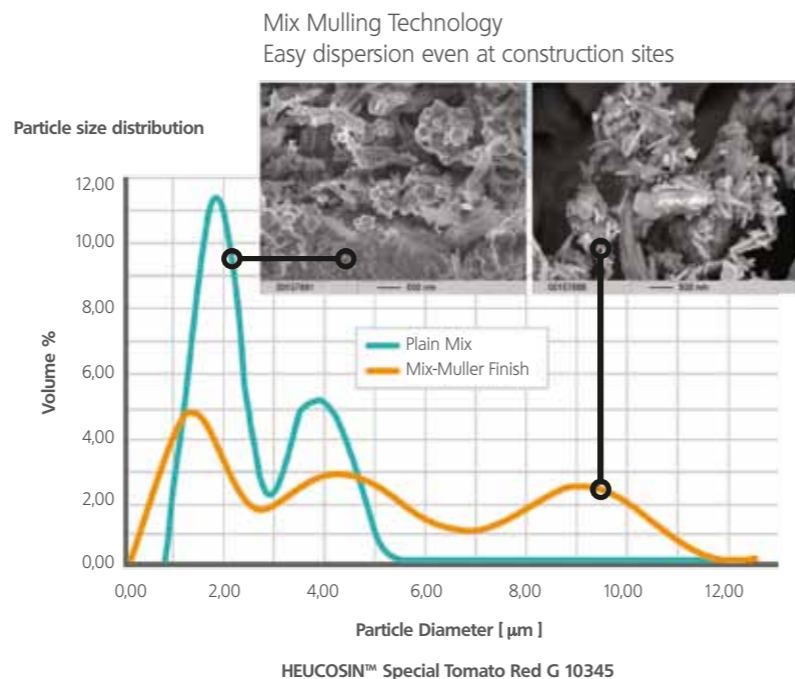
It is worthwhile to mention that this ease of processing is based on the physical modification of the pigment surfaces and does not negatively influence the general film properties as can often be observed by the addition of ionic dispersion additives.

Excellent fastness properties

HEUCOSIN™ Special pigment preparations are designed for exterior use and therefore exhibit very good light and weather fastness as well as excellent resistance to solvents, acids and alkalines.

Value-in-use

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



Minimized floating & flooding due to interlocking of the pigment surfaces

Tomato Red G 10345	Blue Grey G 6528 N	Concrete Grey G 6556 N	Leaf Green G 6557 N
349	40.0	50.6	32.2
56.2	-2.6	-1.6	-33.0
40.3	-1.9	6.9	-24.3
L*	L*	L*	L*
38.4	44.5	54.6	35.4
a*	a*	a*	a*
55.1	-4.6	-1.3	-32.0
b*	b*	b*	b*
40.4	-3.6	9.0	26.9

Guide formulation: Self-levelling floor coating with solvent-free epoxy resin and HEUCOSIN™ Special pigment.

325 g	Epilox-T19-38/700	(epoxy resin, Leuna Harze GmbH)
+ 451 g	Quartz flour	(Quarzwirk Frechen)
+ 1 g	Anti Terra 204	(dispersing agent, Byk-Chemie)
+ 10 g	Byk 501	(deaerating agent, Byk-Chemie)
+ 50 g	HEUCOSIN™ Special Pigment	(corresponding to 5%)
+ 163 g	Epilox curing agent H10-34	(curing agent, Leuna Harze GmbH)
= 1.000 g	total weight	



EP water-borne	EP solvent-free	PU	PMMA	Light	Weather	Acid	Alkali
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Product	Full Shade	RAL	Application Fields				Fastness Properties			
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 Plus Yellow G 10500 (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 Plus Beige G 10501 (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 Plus Yellow G 10502 (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 Plus Red G 10503 (Tomato red RAL 3013)		3013	●●	●	●	●	7 - 8	4	5	5
HEUCOSIN™ Special Green G 6557 N (Leaf green RAL 6002)		6002		●●	●●	●●	7 - 8	4 - 5	5	5
HEUCOSIN™ Special Plus Green G 10504 (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 Plus Green G 10505 (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 Plus Grey G 10506 (Silver grey RAL 7001)		7001	●●	●	●	●	8	5	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 Plus Grey G 10507 (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 Plus Grey G 10508 (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 10509 (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 Plus Grey G 10510 (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 Plus Grey G 10511 (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 Plus Grey G 10512 (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



Our Service

At Heubach, 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.





Our product specifications, application information and any other information in this document is based on our current state of knowledge at the Revision Date mentioned below. They are non-binding and cannot be taken as a guarantee. The processing company must establish the suitability of individual products itself. As their use lies beyond our knowledge and control, we cannot accept any liability relating to the use of our products in particular applications. In addition to that, the legal rights of third parties must always be considered. The specification agreed between the customer and ourselves is the basis upon which our general sales and delivery conditions are set and is the deciding factor concerning any liabilities. Our standard specification is then valid if no specification has been agreed upon between the customer and ourselves.

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