

Technical Data Sheet

Bayferrox® 355 GP

Description

Type	Black pigment
Field of application	Building industry
Delivery form	Microgranules
Chemical class	Synthetic iron oxide Fe_3O_4
Colour Index	Pigment black 11 (77499)
CAS-No.	1317-61-9
REACH registration no.	01-2119457646-28
This product fulfills the requirements of EN 12878 category A (non reinforced materials).	

Specification

Colour values and tinting strength			
Standard for G	Bayferrox 355 GP		
Year	2012		
Binder	Cement mortar		
	min	max	Test method
Color Consistency			
Color Difference ΔE^*_{ab}		1.5	No. 015 ⁴¹
Relative tinting strength [%]	95	105	No. 015 ⁴¹

Bayferrox® 355 GP

Informative Technical Data (guide values)

Pigment data				Test method
Fe ₃ O ₄ Content [%] ⁵³	>	95.5		Information about the determination of iron oxide ⁴¹
Water-soluble content [%]	<	1.9		similar to DIN EN ISO 787-3:2000
Bulk density [g/ml]		0.7 - 1.1		similar to DIN EN ISO 787-11:1995
Water absorption [g/100 g]	~	40		DIN 55608:2000
pH value		5.0 - 10.0		DIN EN ISO 787-9:1995
Moisture content (after production) [%]	<	2.0		DIN EN ISO 787-2:2021
Density [g/ml]	~	4.6		DIN EN ISO 787-10:1995
Additional parameters concerning concrete technology				
Influence on setting time [min] Maximum difference between the initial setting time of mixes with/without pigment	<	60		similar to DIN EN 196-3:2005
Influence on compressive strength [%] as strength loss based on unpigmented mix	<	10		similar to DIN EN 196-1:1994

⁴¹ Please use our contact form on the Internet at www.bayferrox.com for more information.

⁵³ Minor elements may arise from the raw materials used. However, these are firmly bound to the crystal lattice as ions.

Bayferrox® 355 GP

Packaging

Our products are supplied in various types of packaging. To find out in which types of packaging this product is offered, please ask your local contact or use our contact form on the Internet at www.bayferrox.com

Transport and Storage

General storage conditions:	Protect against weathering. Store in a dry place and avoid extreme fluctuations in temperature.
Maximum storage temperature:	During storage, temperatures above 80 ° C are to be avoided since irreversible changes in the color of the pigment can occur.
Special conditions for opened packaging:	Close bags after use to prevent the absorption of moisture and contamination.
Shelf life:	<p>This product has an excellent shelf life. We recommend that this product is used within ten years of the date of manufacture and limit our product warranty to this period. During the first ten years after the date of manufacture we are able to ensure compliance with this specification, provided the material has been stored as stated above and the packaging materials remain undamaged. It must be taken into account that the packaging mean can have a shelf life considerably shorter than the one for this product. All recommendations and warnings given on the packaging must strictly be adhered to. Deviations from storage conditions can lead to undesired changes on side of the packaging materials. These succumb to ageing which may also lead to compromising their capability. Concerning their estimated service life we differentiate between the following packaging materials:</p> <p>All kinds of bags (Paper and PE) 5 years All kinds of Bulk bag 3 years</p> <p>With respect to our Bulk Bags we recommend to avoid UV-radiation because the sewing material of the lifting loops is stabilized against degradation by UV-radiation for appr. 1000 h incident sun radiation for the climate of Central Europe. A more intense sun radiation can shorten this period significantly. In cases of doubt the lifting loops must be checked thoroughly.</p>

Safety

The product is not classified as dangerous under the relevant EC Directives and corresponding national regulations valid in the individual EU member states. It is not dangerous according to transport regulations.

In countries outside the EU, compliance with the respective national legislation concerning the classification, packaging, labelling and transport of dangerous substances must be ensured. The safety data sheet should be observed. This contains information on handling, product safety and ecology. The safety data sheet is available at www.bayferrox.com.

Bayferrox® 355 GP

Status of registration (not specified)

The components of this product are listed on the following inventories:				
Europe: EINECS	USA: TSCA-active	Canada: DSL	Australia: AICS	New Zealand: NZIOC
Philippines: PICCS	Japan: ENCS + ISHL	Korea: ECL	China: IECSC	Taiwan: TCSI