

Product Data Sheet

SIDISHIELD® C25

1. Product Description

SIDISHIELD® C25 is a specially designed light-coloured coating additive consisting of spherical, submicron particles of amorphous silicon dioxide. The nature of the product allows excellent dispersion of these particles in the coating polymer matrix and combined with the low surface area it is possible to achieve higher solid content coatings, maintaining good levelling properties with abrasion and scratch resistance.

2. Application

SIDISHIELD® C25 has been designed for usage in all types of coating systems: solvent free, waterborne, and solvent based, including UV and powder coatings. SIDISHIELD® C25 can, due to its hardness and physical shape, act as a dispersing agent and is also used as a spacer in pigment concentrates. Recommended addition level is 1 - 2% of total formulation.

3. Packing

The product is available in big bags as well as in small paper bags.

Description	Big Bags	Small Bags
Bags on pallet	1 big bag	40 small bags
Net weight 1 bag	400 kg	15 kg
Net weight on pallet	400 kg (881 lb)	600 kg (1323 lb)
Gross weight	400 + 20 = 420 kg (881 + 44 = 925 lb)	600 + 20 = 620 kg (1323 + 44 = 1367 lb)
Bag dimensions (L x W x H)	106 x 106 x 142 cm (41.7 x 41.7 x 55.9 in)	73 x 46 x 20 cm (28.7 x 18.1 x 7.9 in)
Discharge spout Ø: Length:	42 cm (16.5 in) 70 cm (27.6 in)	
Bag material	Coated woven polypropylene fabric	Multilayer paper bag with PE liner
Cover / protection	LDPE shrink hood	LDPE shrink hood
Pallet	Fumigated wood	Fumigated wood
Pallet dimensions incl bags (L x W x H)	105 x 105 x 147 cm (41.3 x 41.3 x 57.9 in)	120 x 100 x 180 cm (47.2 x 39.4 x 70.9 in)

4. Storage Conditions

The product is recommended to be stored in a covered dry place, protected from direct UV light. Recommended storage temperature between +5 °C and +40 °C (+45°F and +104°F). It's important that the minimum temperature is > 5°C (9°F) above the dew point. Recommended relative humidity < 85%.

5. Shelf Life

We recommend that the product should be used within 2 years from production date.

6. Health, Safety and Environment

The product safety information, as well as REACH information, can be found on our website: www.sidistar.com.

7. Additional Information and contact

For further information about SIDISHIELD®, a contact list can be found on our webpage www.sidistar.com. You are also welcome to send your questions to us by email: info@sidistar.com

8. Test Methods

Material data given in this product specification refer to analysis according to Elkem internal standard test methods, which are available upon request.

9. Version / Updates

The information on this product specification may be subject to change. Please check our website www.sidistar.com, for latest updates, and discard all older versions.

SIDISHIELD®

THE INORGANIC COATING ADDITIVE

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10. Physical Data & Analysis

Properties	Test Method	Unit	Limits:
SiO₂ (Silicon dioxide, amorphous)	EM-LAB-18	%	96.0 – 99.0
Fe₂O₃ (Iron oxide)	EM-LAB-17	%	≤ 0.20
H₂O (Moisture, when packed)	EM-LAB-02	%	≤ 0.8
Loss on Ignition (L.O.I.) @ 950°C	EM-LAB-03	%	≤ 0.50
pH-value (fresh)	EM-LAB-10		7.0 – 9.0
Bulk Density (when packed)	EM-LAB-08	kg/m ³	150 - 350
Other Properties (measured on undensified material)		Unit	Typical Values*:
Specific surface area (BET)		m ² /g	18 – 25
Primary particle size (mean value)		µm	0.15
L-value		%	≥ 90
Specific Gravity			2.2
Oil number		g/100g	ca 60

* Typical values are for indication use only values are not part of Elkem Silicon Materials standard analysis.

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