

SYLOID® RAD 2105 Matting Agent

Product Information

SYLOID® is a registered trademark of W.R. Grace & Co.

1) PRODUCT DESCRIPTION

SYLOID® RAD 2105 is an amorphous silica with special organic treatment, appearing as white free flowing powder.

2) PRODUCT SPECIFICATION

<i>Property</i>	<i>Unit</i>	<i>Specification</i>	<i>Test Method</i>
Moisture (160°C)	%	3.5 max.	GRACE Q 05
Particle Size Malvern Mastersizer 2000 (013 MS2 US)			GRACE Q 13
Average Particle Size	µm	4.8 - 5.8	
Wet Screen Residue (> 42 µm)	%	0.01 max.	DIN EN ISO 787-18
pH (5 % aq. suspension)		6 - 8	DIN EN ISO 787-9

3) TYPICAL PROPERTIES

The following data are given for information purposes only:

<i>Property</i>	<i>Unit</i>	<i>Typical Value</i>	<i>Test Method</i>
Oil Adsorption	g/100g	120	DIN EN ISO 787-5
Carbon Content	%	16	GRACE Q17

4) RECOMMENDED APPLICATIONS

SYLOID® RAD 2105 is an easily dispersible silica matting agent specially designed for a wide range of 100% VOC-free radiation cured systems. Due to its controlled particle size distribution and novel surface treatment, SYLOID® RAD 2105 exhibits a high matting efficiency together with a low thickening effect and excellent film clarity.

SYLOID® RAD 2105 provides consistent gloss over small variations in coating weights, excellent viscosity stability and application performance characteristics.

SYLOID® RAD 2105 is mainly suitable for

- UV-curing Systems
- EB-curing Systems
- Soft-feel Coatings.

SYLOID® RAD 2105 may also be suitable for other types of solvent and waterborne coatings.

5) PACKAGING INFORMATION

SYLOID® RAD 2105 is supplied in bags.

20 kg/bag

12 bags/pallet

240 kg/pallet

pallet: 1000 x 1200 mm

6) HANDLING AND STORAGE RECOMMENDATIONS

Like all other finely powdered products SYLOID® RAD 2105 has a tendency to develop dust. During handling, precautions should be taken against electrostatic discharges. The product becomes combustible at temperatures in excess of 300°C. Air turbulences of product dust particles will cause an explosive atmosphere. Additional information can be found in our Safety Data Sheet. Storage in a dry warehouse is recommended. Open packages should be resealed to prevent contamination of the product. The material should be used within 6 months from the date of production.

7) HEALTH AND SAFETY INFORMATION

SYLOID® RAD 2105 is a synthetic, amorphous silica with an organic surface treatment. Information to date indicates that the dust from the product is not toxic and does not cause fibrosis. The Occupational Exposure Limit in Germany is 4 mg/m³ for total dust (MAK). Additional information can be found in our Safety Data Sheet. Please refer also to national laws and regulations.

8) OTHER INFORMATION

We hope the information given here will be helpful. It is based on data and knowledge which we believe to be true and accurate and is offered for the user's consideration, investigation and verification. Accordingly, save in the event of gross negligence or wilful misconduct of ourselves and our agents, we will not be liable for any damages resulting from errors, omissions or non-compliance of the information set forth herein. Further, please read all statements, recommendations or suggestions in conjunction with our General Conditions of Delivery, Performance and Payment which limit our liability with respect to all goods supplied by us. Test methods are available on request.

9) PRINCIPAL SALES OFFICES

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