



# Sylsia

Matting agent

## Description

White, free-flowing powders of amorphous, micronized silica. Sylsia is characterized by the fine pore network and the narrow, defined particle size distribution. These parameters are precisely adjusted to meet a wide variety of applications.

The Sylsia product range includes silica without surface treatment, and silicas with different wax treatments.

Sylsia can be incorporated easily and is highly efficient in the matting of various coating systems. Coarser Sylsia grades have an additional surface texturing effect and improve the feel of the surface.

Sylsia can optimize the printability (contrast development, ink blending) of wood or paper surfaces.

Moreover, Sylsia is used in plastic compounds as anti-blocking additive and for the production of light-diffracting films and sheets.

## Range of use

### Coatings

Sylsia may be used in all common binder systems:

- Water-based coatings (1pack/2pack)
- UV-coatings (100%, water-, solvent-based)
- Solvent-based coatings (1pack/2pack)
- PU-, Epoxy-, Polyester-resins

### Polymer-compounds

Sylsia is compatible with a variety of plastics and is used as anti-blocking additive and for light-diffraction:

- PE/PP
- PET
- PC
- PVC
- Nylon (PA)

## Applications

- Parquet varnishes, floor care products
- Furniture coatings/foils
- Foil coatings
- (Artificial)Leather-Topcoats
- Anti-blocking-compounds
- Plastic part coatings
- Glass coatings
- Packaging inks
- Wood stains
- Plastic-granules/-foils/-sheets

## Packaging

Packaging unit: 8-20 kg paper bags (depends on grade)

## Storage

Store at low relative humidity in closed bags. Do not store pallets on top of each other. This could compress the material and destroy application properties.

## Product properties

- Dry, white and free-flowing powders
- specific gravity: 2,15
- refractive index: 1,46
- residual water (160°C, 2h): ≤ 5%
- chemically inert

Sylysia 200-series	pore volume [ml/g]	average particle size [µm]	pH	specific surface [m <sup>2</sup> /g]	Surface treatment
<b>SY 240 N</b>	1,8	5,0	7	300	none
<b>SY 246 NF</b>	1,8	5,0	7	300	Wax (II)
<b>SY 250 N</b>	1,8	6,2	7	300	none
<b>SY 256 N</b>	1,8	6,2	7	300	Wax
<b>SY 256 NF</b>	1,8	6,2	7	300	Wax (II)
<b>SY 270</b>	1,8	7,6	3	300	none
<b>SY 270 N</b>	1,8	7,6	7	300	none
<b>SY 276</b>	1,8	7,6	7	300	Wax
<b>SY 276 F</b>	1,8	7,6	7	300	Wax (II)
<b>SY 276 FA</b>	1,8	7,6	3	300	Wax (II)
<b>SY 290</b>	1,8	9,0	3	300	none
<b>SY 290 N</b>	1,8	9,0	7	300	none
<b>SY 296</b>	1,8	9,0	7	300	Wax
<b>SY 296 F</b>	1,8	9,0	7	300	Wax (II)
<b>SY 296 FA</b>	1,8	9,0	3	300	Wax (II)
<b>SY 290 N/11</b>	1,8	11,0	7	300	none
<b>SY 296 F/11</b>	1,8	11,0	7	300	Wax (II)

Sylysia 300-series	pore volume [ml/g]	average particle size [µm]	pH	specific surface [m <sup>2</sup> /g]	Surface treatment
<b>SY 310 P</b>	1,6	2,6	7	300	none
<b>SY 320</b>	1,6	3,3	7	300	none
<b>SY 350</b>	1,6	4,0	7	300	none
<b>SY 356 F</b>	1,6	4,0	7	300	Wax (II)

Sylysia 400-series	pore volume [ml/g]	average particle size [µm]	pH	specific surface [m <sup>2</sup> /g]	Surface treatment
<b>SY 430</b>	1,2	4,1	7	600	none
<b>SY 440</b>	1,2	6,2	7	600	none
<b>SY 450</b>	1,2	8,3	7	600	none
<b>SY 456</b>	1,2	8,3	7	600	Wax
<b>SY 450 S</b>	1,2	9,0	7	600	none
<b>SY 456 CF</b>	1,2	12,0	7	600	Wax (II)
<b>SY 450 C</b>	1,2	10-14	7	600	none
<b>SY 470 L</b>	1,2	14-19	7	600	none

Sylysia 500-series	pore volume [ml/g]	average particle size [µm]	pH	specific surface [m <sup>2</sup> /g]	Surface treatment
<b>SY 550</b>	0,8	4,0	7	800	none
<b>SY 560</b>	0,8	6,0	7	800	none
<b>SY 580</b>	0,8	8,0	7	800	none

Sylysia 700-series	pore volume [ml/g]	average particle size [µm]	pH	specific surface [m <sup>2</sup> /g]	Surface treatment
<b>SY 770</b>	0,4	7,0	3,5	700	none
<b>SY 780</b>	0,4	9,0	3,5	700	none

Further grades available upon request



## Contact

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- Customer-specific requirements need individual solutions.
- We can offer you support and advice for the start of your development work.
- Do you need more information?  
The FINMA team is looking forward to your contact.

**FINMA GmbH**  
Theodor-Heuss-Straße 5  
D - 61191 Rosbach  
phone.: +49-6003-9193-0  
fax: +49-6003-9193-29  
info@finma.de  
www.finma.de



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