

## FINNTALC M40SL

### Functional Extender

#### GENERAL INFORMATION

**FINNTALC M40SL** is a hydrated magnesium silicate with chemical formula of  $Mg_3Si_4O_{10}(OH)_2$ .

**Finntalc grades** are purified in a cascade of multiple flotation cells. This process results in a tight definition of the talc composition, making this natural product similar to a synthetic chemical. In combination with a precisely controlled particle size distribution, this ensures exact reproducibility in formulations.

#### APPLICATIONS

- Paints & Coatings: low VOC industrial top coats with dry film thickness of 80-100  $\mu m$ , matt architectural coatings and fine plasters.
- Plastics

#### KEY PROPERTIES

- Pure, lamellar, coarse particle size talc with reduced oil absorption value, high and stable whiteness, very hydrophobic, inert and soft.

#### INCORPORATION

**FINNTALC M40SL** can be used as a functional extender to achieve following results:

Good barrier properties, good anti-corrosion properties, good outdoor durability, white colour, good adhesion and sandability.

#### LEVELS OF USE

Typical use levels for paints and coatings applications are 15 - 25 % depending upon the application and the desired properties.

#### HEALTH AND SAFETY

Before using this product please consult our Safety Data Sheet (SDS) for information on safe handling and storage. The SDS can be found on the company website.

#### STORAGE RECOMMENDATIONS

Store dry.

#### SHELF LIFE

**FINNTALC M40SL** has a shelf life of 5 (five) years from the date of manufacture.

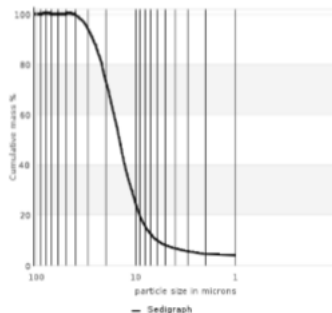
#### QUALITY ASSURANCE

Since 1992 the company is a holder of the ISO 9001 certificate, which guarantees that all operations are conducted according to the stipulated standards.

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## FINNTALC M40SL

<b>MINERALOGY</b>	Talc (Mg-Silicate)		98	%
	Traces of magnesite, dolomite and chlorite			
	CAS-No. 14807-96-6	EINECS-No. 238-877-9		
<b>CHEMICAL PROPERTIES</b>	MgO	XRF	31	%
	SiO <sub>2</sub>	XRF	61	%
	CaO	XRF	0.1	%
	Al <sub>2</sub> O <sub>3</sub>	XRF	0.4	%
	Fe <sub>2</sub> O <sub>3</sub>	XRF	2	%
	Fe acid soluble	1mol/L HCl, 100°C	0.1	%
	Loss on ignition	DIN 51081/1000°C	5.4	%
	pH value	ISO 787/9	9.1	
<b>OPTICAL PROPERTIES</b>	Whiteness Ry	DIN 53163	83	%
	ISO brightness R457	ISO 2470	82	%
	Refractive index	Mallard	1.57	
	CIE L*, a*, b*	DIN 6174	93/-0.4/1.2	
	Yellowness index	DIN 6167	2.2	
<b>PHYSICAL PROPERTIES</b>	Top cut D98	Sedigraph, ISO 13317	38	µm
	Median particle size D50	Sedigraph, ISO 13317	14	µm
	Fineness of grind	ISO 1524	95	µm
	Sieve residue	ISO 787/7, 75 µm	< 0.1	%
	Specific surface area	BET, ISO 4652	2.5	m <sup>2</sup> /g
	Oil absorption	ISO 787/5	30	g/100g
	Abrasion	Einlehner AT 1000	5	mg
	Hardness	Mohs	1	
	Moisture	ISO 787/2	0.04	%



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V01 Mar. 2019

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