

LUVATOL Thickening Control for SMC / BMC

Brief Description:

LUVATOL® magnesium oxide- and magnesium hydroxide pastes are commonly used for the thickening of SMC and BMC as well as relining application and LP/LS systems.

Monomer- and Styrene-free unsaturated polyester resins are being used as carrier.

LUVATOL® pastes are adjusted to avoid sedimentation to a minimum if proper storage conditions are given.

Product overview:

ECONOMIC	PREMIUM	SPECIAL
Attractive price, constant reactivity, defined final thickening	Customized formulations, tight reactivity limits combined with a defined final thickening	Additional benefits: Food contact compliance (EU No. 10/2011), enhanced transparency (UV curing), improved GHS classification
MK 25 EC MK 35 EC (<i>available 2023</i>)	MK 25 / 35 / 35 NV EK 50 F / 25 F EK 25 NV / 30 NV / EK 100 KM EH 35 DK 35	MK 2050 / 3050 EK 2000 / 3000 / 3050 MK 2500 NV

Additional Information:

LUVATOL® pastes are supplied in: Steel drums of 120 or 210 l (= 140 - 250 kg)
IBCs of 1,000 l (= 1,000 - 1,500 kg)

LUVATOL® MK pastes contain medium reactive MgO.
They are therefore suitable for continuous and discontinuous processes.

LUVATOL® EK pastes are based on high reactive MgO.
With a very fast and defined thickening they are suitable for use in standard SMC, LP- and LS systems.

LUVATOL® EH pastes are based on low reactive Mg(OH)₂.
This pastes are characterized by its slow initial thickening which enables good glass fiber wetting and penetration within LP systems.

LUVATOL® DK pastes are produced with modified Mg(OH)₂ for defined final thickening of BMC.
Moreover they are suitable for CIC process.

Under appropriate conditions, storage stability of the most LUVATOL® pastes are min. 12 months. The paste should be kept in a cool and dry place, no open-air storage! Partly used drums must carefully be closed again immediately after use.

Hazard Information: Store tightly closed and in a cool, well-ventilated area. Protect from humidity and direct sunlight. Detailed information in material safety data sheet.



The information presented herein is believed to be accurate and reliable, but is presented without guarantee or responsibility on the part of Lehmann&Voss&Co. Further, nothing contained herein shall be taken as an inducement or recommendation to manufacture or use any of the herein described materials or processes in violation of existing or future patents

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LEHVOSS Group

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Technical data:							
	Active ingredients [%]	Reactivity level	Reactivity limits [%] In relation to external standard	Viscosity [mPa s] at 25°C	Density [g/cm ³] at 25°C	Application *	Process *
Economic types							
MK 25 EC	25	Medium	85 - 115	6,000	1.70	LS	SMC/BMC
MK 35 EC	35	Medium	85 - 115	8,000	1.78	LS	SMC/BMC
Premium types							
MK 25	25	Medium	90 - 110	4,500	1.55	LS	SMC/BMC
MK 35	35	Medium	90 - 110	17,000	1.71	LS	SMC/BMC
MK 35 NV	35	Medium	90 - 110	10,000	1.64	LS	SMC/BMC
EK 50 F	45	High	90 - 110	9,000	1.50	LS/LP	SMC/BMC
EK 25 F	28	Medium	90 - 110	4,000	1.56	LS	SMC/BMC
EK 25 NV	25	High	77 - 123	4,500	1.50	LS/LP	REL/SMC/BMC
EK 30 NV	30	High	77 - 123	200	1.21	LS/LP	REL/SMC/BMC
EK 100 KM	50	High	90 - 110	7,000	1.60	LS/LP	BMC/SMC
EH 35	35	Low	73 - 127	11,000	1.54	LP/LD	SMC/BMC
DK 35	35	Low	70 - 130	7,000	1.55	LP/LD	SMC/BMC/CIC
Special types							
MK 2050	25	Medium	90 - 110	22,500	1.75	FC	SMC/BMC
MK 3050	35	Medium	90 - 110	10,000	1.65	FC	SMC/BMC/REL
MK 2500 NV	25	Medium	90 - 110	2,000	1.30	FC	REL
EK 3050	35	High	90 - 110	8,000	1.58	FC	BMC/SMC
EK 3000	25	High	70 - 130	3,000	1.32	FC	REL/SMC/BMC
EK 2000	20	Medium	90 - 110	7,500	1.63	FC	SMC/BMC

- * LS: low shrink SMC
 LP: low profile SMC
 LD: low density/low pressure SMC
 FC: Food contact compliance
 REL: Relining / sewer renovation / Cured in place pipes "CIPP"
 SMC: Sheet molding compounds
 BMC: Bulk molding compounds
 CIC: Continuous impregnated compound

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