Non-sagging parquet adhesive based on MS Polymer™ 50 Shore A

Basis   silane-terminated polyether
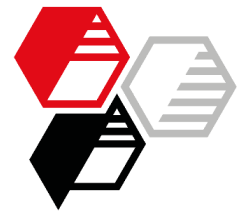
V44424.2		SILLITIN Z 86	SILLITIN V 85
		[1]	[2]
MS Polymer™ S303H	(1)	100	100
Synalox 100-50B	(2)	50	50
Sachtleben R-FK-2	(3)	10	10
Crayvallac SLX	(4)	7,5	7,5
SILLITIN Z 86	(5)	200	---
SILLITIN V 85	(5)	---	200
Tinuvin 770	(6)	1	1
Tinuvin 327	(6)	1	1
Dynasylan VTMO	(7)	2	2
Dynasylan AMEO	(7)	7	7
Catalyst (dibutyltin diacetylacetonate)		1	1
Total parts by weight		379,5	379,5

Note   ***This formulation is intended to show the basic effects of the various Neuburg Siliceous Earth grades, although the raw materials used are in some cases no longer state of the art or are subject to other restrictions.***

Recommendation   The yield point of the formulation can be adjusted by the rheological additive, preferably 5 to 10 pbw for non-sagging formulations.
Formulation 2 with SILLITIN V 85 is recommended for low viscosity applications

Mixing   For the preparation a planetary mixer equipped with dissolver disc, kneading tool and scraper is suitable.

- pre-dry filler and titanium dioxide
- charge binding agent, plasticizer, light stabilizer and rheological additive
- add filler and titanium dioxide and disperse 45 min under vacuum; during this time keep the temperature of the batch between 60 and 90°C for 30 min in order to sufficiently activate the rheological additive
- after cooling down to 50°C, add drying agent, bonding agent and catalyst at intervals of 5 min and stir in
- after short deaeration, fill the compound into a cartridge

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	V44424.2			SILLITIN Z 86 [1]	SILLITIN V 85 [2]
Technical Data	Hardness	DIN ISO 7619-1	Shore A	52	51
	Tensile strength	DIN 53504, S2	MPa	4.3	3.7
	Elongation at break	DIN 53504, S2	%	150	180
	Lap shear strength (LSS) oak (23 x 26 mm)	DIN 281	MPa	2.4	2.4

Suppliers		
	(1)	Kaneka
	(2)	Dow Chemical Company
	(3)	Venator Materials Corporation
	(4)	Cray Valley
	(5)	HOFFMANN MINERAL
	(6)	BASF
	(7)	Evonik Industries

More information on this topic:

Neuburg Siliceous Earth as a Siliceous Alternative to Calcium Carbonate in MS Parquet Adhesives

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