

Economic parquet adhesive meets the requirements of DIN EN 14293 for "soft" adhesives 45 Shore A

Basis

silane-terminated polyether

	SILLITIN V 85	SILLITIN Z 86 PURISS	SILFIT Z 91
	[9]	[10]	[11]
(1)	15.5	15.5	15.5
(2)	25.0	25.0	25.0
(1)	2.0	2.0	2.0
(1)	2.5	2.5	2.5
(3)	47.0		
(3)		47.0	
(3)			47.0
(1)	1.0	1.0	1.0
	93.0	93.0	93.0
	(1) (2) (1) (1) (3) (3) (3) (3) (1)	SILLITIN V 85 [9] (1) 15.5 (2) 25.0 (1) 2.0 (1) 2.5 (3) 47.0 (3) (3) (1) 1.0	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

Recommendation	[9]	SILLITIN V 85	very cost-effective low viscosity
	[10]	SILLITIN Z 86 PURISS	high strength
	[11]	SILFIT Z 91	low moisture content white and color-neutral low viscosity

Note

The sagging behavior of the formulation can be adjusted by the rheological additive.

Further cost savings are possible (without compromising strength) by increasing the filler content up to 54 parts by weight.

Suppliers

- (1) Wacker Chemie
- (2) Shell Chemicals
- (3) HOFFMANN MINERAL



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				SILLITIN V 85	SILLITIN Z 86 PURISS	SILFIT Z 91	
	V44303.2			[9]	[10]	[11]	
Mixing	 For the preparation a planetary mixer equipped with two kneading tools and scraper is suitable. The formulation is prepared at room temperature in typically 10-15 min. charge polymer Geniosil STP-E 10, plasticizer Caradol ED 56-200 and drying agent Geniosil XL 10 add rheological additive HDK H 18 while stirring add filler (not pre-dried) while stirring disperse 2 min at 600 rpm add adhesion promoter Geniosil GF 96 disperse 1 min at 600 rpm under vacuum remove compound from the stirrer disperse 1 min at 600 rpm under vacuum fill into a cartridge 						
Properties	Complex viscosity	DIN 54458					
	@ 50 % deformation		Pa∙s	38	48	31	
	@ 0.1 % deformation		Pa∙s	63	69	42	
	Hardness	DIN ISO 7619-1	Shore A	44	45	50	
	Tensile strength	DIN 53504, S2	MPa	2.7	3.7	3.2	
	Elongation at break	DIN 53504, S2	%	159	173	156	
	Lap shear test, DIN E	N 14293, substrate:	<u>oak</u>				
	1 mm adhesive layer – "soft" parquet adhesive required: lap shear strength > 0.5 MPa, displacement > 2.(@ 1 mm adhesive layer)						
	Lap shear strength	ngai > 0.0 mi a, aispia	MPa	2 5	27	25	
	Displacement		mm	3.0	3.0	2.7	
	Adhesion (visual asse	essment)		+	+	+	
		- ,					

More information on this topic:

Neuburg Siliceous Earth in adhesives based on silane terminated polyether (STP-E), e. g. for parquet and industry

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