2K-Polyaspartic floor coat
Tough Coat, self-leveling, solvent-free
75 Shore D

Basis Polyaspartic (polyaspartic ester / isocyanate HDI)

	Guide Formulation of Covestro		WKHB 512/1
Component A	Desmophen NH 1420	(1)	30.7
	Sylosiv A4	(2)	0.7
	Tego Airex 944	(3)	0.4
	Tego Wet 250	(3)	0.1
	SILLITIN Z 86	(4)	26.7
	Colortherm Green GN	(5)	4.7
Component B	Desmodur E 2863 XP	(1)	27.5
	Desmodur ultra N 3900	(1)	9.2
	Total % by weight		100.0

Recommendation For better dispersibility and mechanical properties SILLITIN Z 86 PURISS is recommended.
For brighter applications SILLITIN Z 89 / SILLITIN Z 89 PURISS are suitable.

Mixing Preparing component A under vacuum (approx. 200 mbar) has been proved ideal regarding the incorporation of air and to achieve the mentioned working time.
Allow component A to age for at least 24 h prior to use.

Processing Premix the two Desmodur types prior to use.
Mix component A and B properly prior to the application.
The tough coat can be applied by trowel.

Suppliers

(1) Covestro
(2) Grace
(3) Evonik Tego Chemie
(4) HOFFMANN MINERAL
(5) Lanxess

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Composition	Binding agent	% (w/w)	approx. 67.4
	Additives	% (w/w)	approx. 1.2
	Pigments and fillers	% (w/w)	approx. 31.4
	Calculated solvent content	% (w/w)	0
Technical Data	Mixing ratio A : B (% by weight)		approx. 64 : 36
	Crosslinking ratio NCO : OH	%	approx. 110
	Working time (manual)	min	approx. 30
	Drying time, 400 µm wet, drying recorder	min	approx. 95 / 240
	Hardness, after 3d @ 50°C	Shore A / D	approx. 88 / 74
	Pendulum hardness Koenig, after 7 / 56d @ RT	s	approx. 98 / 141
	Abrasion loss CS 17 (10 N, 1000 cycles)	mg	approx. 52.4
	Glass transition temperature T_g	°C	approx. 44.5
	Tensile strength, after 3d @ 50°C	N/mm²	approx. 22
	Elongation at break, after 3d @ 50°C	%	approx. 18
	Tear resistance, after 3d @ 50°C	N/mm	approx. 124

The tests were done @ 23°C / 50 % RH.

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