2K-PU joint sealant for floor joints, pourable
good chemical resistance
30 Shore A

Polyol linear, aliphatic polycarbonate polyester

Isocyanate aromatic polyisocyanate based on MDI

	Guide Formulation RR 5512 (05/03) of Covestro		V 44403.0 [2]
Component A	Desmophen C 1200	(1)	20.6
	Mesamoll	(2)	22.7
	Finma-Sorb 430 PR	(3)	2.0
	Sachtleben R-KB-4	(4)	2.0
	Dabco 33-LV	(5)	0.3
	Oleic acid (e. g. Edenor Ti 05)	(6)	0.3
	SILLITIN Z 86	(7)	10.4
	EWO	(8)	21.0
Component B	Desmodur VL 50	(1)	4.9
	Desmophen C 1200	(1)	8.3
	Mesamoll	(2)	7.5
	Total parts by weight		100.0

Mixing ration A : B	4 : 1 parts by weight
Pot life	approx. 35 min
Pot life after storage 4 weeks at 50°C	approx. 55 min
	material is tack-free after 24 h

Recommendation For better dispersibility and mechanical properties SILLITIN Z 86 PURISS is recommended.

Note Oleic acid blocks the catalyst Dabco 33-LV (1,4 Diazabicyclo(2,2,2)-octane). This permits a longer pot life.
Because the blocking of the catalyst needs some time, it is recommended that component A stands at least 24 h after production.

In the case of exposure to weathering or to elevated temperatures adequate stabilizers have to be added.

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V 44403.0 [2]

Technical Data

Hardness	DIN ISO 7619-1	Shore A	25-30
Tensile strength	DIN 53504	MPa	5.2
Elongation at break	DIN 53504	%	620
Tear resistance	DIN ISO 34-1, B	N/mm	5.7

Chemical resistance

Test agents (see page 3)	Weight change after 40 days in %	Elongation at break after 40 days in %	Tensile strength after 40 days in %
unimmersed	-	620	5.2
1	-12	500	5.6
2	-18	500	7.2
3	-14	490	6.2
7	+64	625	7.6
9	+74	440	2.0
10	-	375	5.2
11	+5	490	5.8

The elongation at break and tensile strength were tested after the immersed samples were dried for 3 days at 50°C (according to DIN 53 504).

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1	Diesel Fuel (DIN 51 600)	50 Vol-% isooctane 50 Vol-% toluene
2	Aviation Fuel	Jet A 1
3	Heating Oil EL (DIN 51 603 part 1) and Diesel Fuel (DIN 51 601)	Test mix A 20/NP II from J. Haltermann, D-Hamburg
7	aliphatic esters and ketones	50 Vol-% ethyl acetate 50 Vol-% methyl isobutyl ketone
9	aqueous solution of organic acids 10 %	acetic acid, 10 %
10	mineral acids other than hydrofluoric acid, together with hydrolyzing acidic salts (pH < 6) in aqueous solution 20 %	sulfuric acid, 20 %
11	inorganic alkalines together with hydrolyzing alkaline salts (pH > 9) in aqueous solution 20 %	sodium hydroxide, 20 %

Suppliers

(1) Covestro
(2) Lanxess
(3) Finma-Chemie
(4) Venator Materials Corporation
(5) Evonik Industries
(6) Emery Oleochemicals
(7) HOFFMANN MINERAL
(8) Sachtleben Minerals

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