2K-Epoxy industrial flooring
self-leveling, with good pigment stability

Basis Epoxy resin (bisphenol A and adduct of isophoron diamine)

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Component A	D.E.R. 336	)*	(1)	44.00
	Tego Airex 980	)**	(2)	0.50
	Millisil W 10		(3)	17.00
	Millisil W 8		(3)	16.00
	SILLITIN Z 86		(4)	8.00
	Hombitan R 611	)***		4.67
	Bayferrox 920		(6)	0.15
	Bayferrox 318 M		(6)	0.18
	disperse with 15 m/s			
	after cooling down complete with			
	1,6-hexanediol diglycidylether			4.00
	Benzyl alcohol			2.50
	Tego Airex 900		(2)	0.30
	Isopropanol			0.70
	Total parts by weight			98.00
Component B	Hardener (adduct of isophoron diamine, approx. 77 g/Eq)			20.00

stoichiometric mixing ratio epoxy / amine = 1

)* D.E.R 336 is no longer available
possible alternative: similar liquid epoxy resin with EEW = 181-185 g/eq, epoxy content = 23.2-23.8 %, viscosity = 9400-11000 mPas (25 °C)

)** Tego Airex 980 is no longer available
possible alternatives: Tego Airex 990, Tego Airex 991, Tego Airex 944 (2)

)*** Hombitan R 611 is no longer available
possible alternative: Sachtleben R-KB-4 (5)

Recommendation SILLITIN Z 86 offers ways to combine excellent mechanical properties with outstanding processing properties under favorable cost aspects.
Good processing properties are also maintained in sand extended formulations.

At higher air humidity the surface properties can be improved by partial adding of hexanediol diglycidylether to the hardener.

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Application properties

Leveling	sehr gut
Deaeration	gut
Pigment stability	sehr gut
Crossover area	nahezu keine Farb- und Strukturübergänge

after addition of coarse quartz sand

50 pbw sand / 100 pbw complete formulation

Leveling	good
Deaeration	good
Pigment stability	good
Crossover area	after treatment with a spiked roller any color or structure changes

80 pbw sand / 100 pbw complete formulation

Leveling	just good
Deaeration	just good
Pigment stability	just good
Crossover area	after treatment with a spiked roller slight color and structure changes

Technical Data

Hardness	DIN EN ISO 868	Shore D	82
Tensile test	DIN EN ISO 527		
	Tensile strength	MPa	34
	Elongation at break	%	0.9
	Tensile modulus	MPa	4400
Abrasion loss	according to DIN 53754 resp. ASTM 4060-01		
	S42 (5.4 N, 55 rpm)	mg/100 revs	140
	CS17 (10 N, 55 rpm)	mg/1000 revs	85

Suppliers

(1) Olin
(2) Evonik Tego Chemie
(3) Quarzwerke
(4) HOFFMANN MINERAL
(5) Venator Materials Corporation
(6) Lanxess

More information on this topic:

Neuburg Siliceous Earth for Industrial Epoxy Flooring

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