Neuburg Siliceous Earth vs. Combination of Barite / Fumed Silica / Additives
Industrial Flooring Self-Leveling 2C Epoxy

FORMULATION

Component A	Base formulation
Bisphenol A epoxy resin (D.E.R. 336, Dow)	44.0
Defoamer	0.8
Quartz flour fine (d_{50}/d_{95}: 20/70 µm)	17.0
Quartz flour coarse (d_{50}/d_{95}: 30/90 µm)	16.0
Pigments (titanium dioxide and iron oxide types)	5.0
Additives (leveling, dispersing, surfactant)	2.5
Thixotropic agent (fumed silica)	0.3
Fine filler (barite)	8.0
Reactive diluent (1,6-hexanediol diglycidylether)	4.0
Benzyl alcohol	2.0
Isopropanol	0.4
Total parts by weight	100.0

Variations without additives and fumed silica

finally all replaced by 8 parts of Neuburg Siliceous Earth

Component B	
Hardener, based on isophoron diamine	20.0
Stoichiometric mixing ratio EP/amine is 1	

SUMMARY

NEUBURG SILICEOUS EARTH: Improved combination of

processing	strength	chemical resistance	abrasion resistance

Sillitin Z 86

- best price-performance ratio

Sillitin Z 86 puriss

- for transparent sealers and formulations without coarse fillers
- excellent dispersing properties

Neuburg Siliceous Earth vs. Combination of Barite / Fumed Silica / Additives
Industrial Flooring Self-Leveling 2C Epoxy

RESULTS

Processing		Leveling	Deaeration	Pigment stability	Appearance crossover area	Storage stability Sedimentation
Barite + fumed silica	with additives	+	- -	- -	-	+
Barite + fumed silica	without additives	+	- - -	-	o	o
without fine filler	without additives	++	++	o	o	-
Sillitin Z 86	without additives	++	+	+	+	+