

NEUBURG SILICEOUS EARTH IN WATER-BASED CLEAR COAT FOR WOOD, 1C ACRYLIC FILLER*

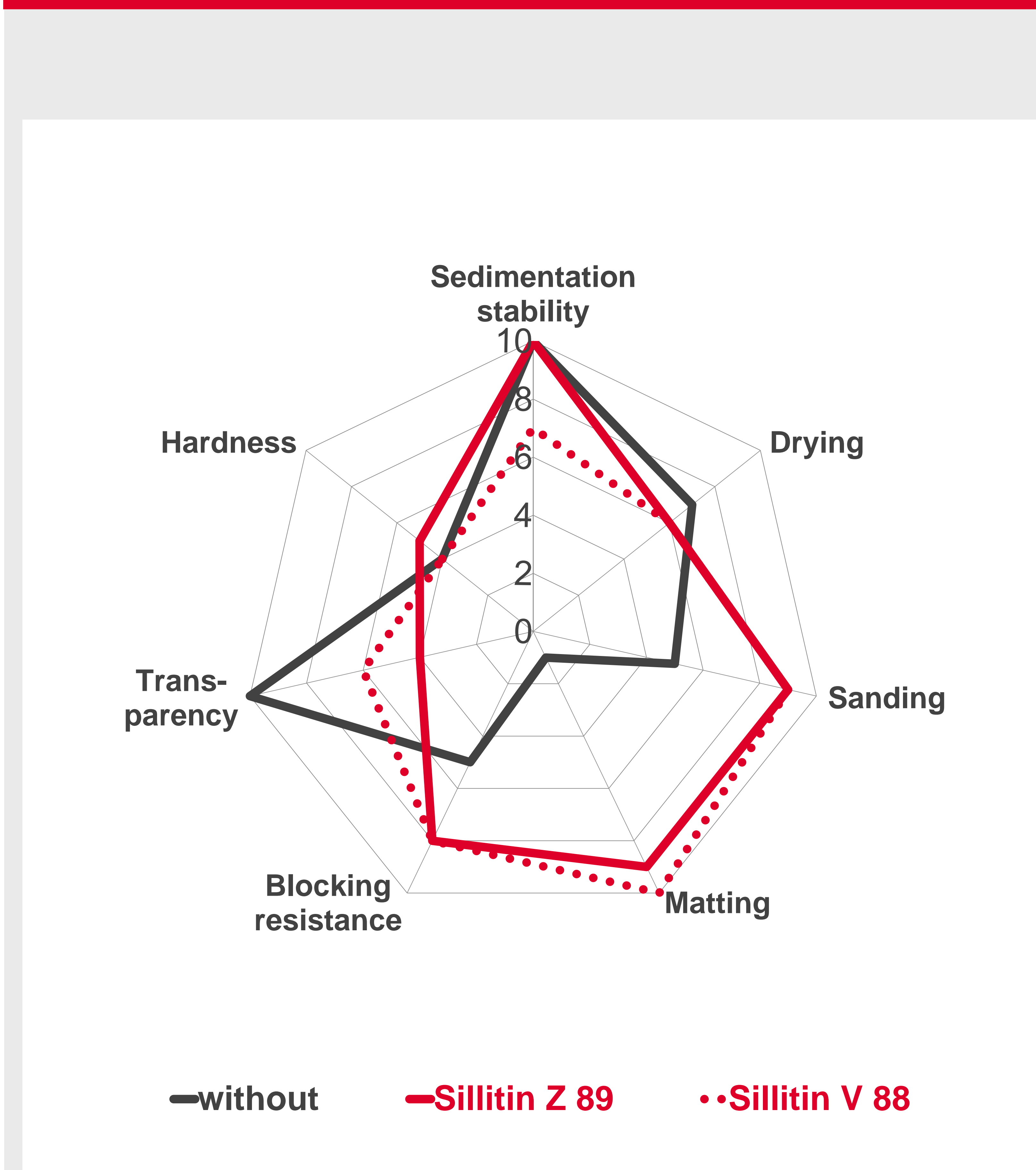
EFFECTS OF NEUBURG SILICEOUS EARTH

FORMULATION

	Control		Same solid volume	Neuburg Siliceous Earth
	%	pbw		
Butyl glycol	7.7	5.0		5.0
Water demineralized	13.3	8.6	3. increased	20.9
Tego Dispers 750 W	----	----	2. added	3.0
Filler	----	----	1. added	20.0
Alberdingk AC 31	77.3	50.0		50.0
Byk 024	0.8	0.5		0.5
Rheovis PU 1214	0.9	0.6		0.6
Total	100.0	64.7		100.0
Solid content w/w	[%]	39.8		46.9
Solid content v/v	[%]	37.2		37.2
PVC	[%]	0		25.3

* Base formulation by Alberdingk Boley

RESULTS



Sanding

DFT [µm]

	Filler 20 pbw					
	without	Sillitin Z 89	Sillitin V 88	without	Sillitin Z 89	Sillitin V 88
120 min		40 min	40 min	240 min	90 min	90 min

50 Double rubs

“Rolls”

Blocking resistance

Drying	1 h 23°C	0.5 h 23°C + 0.5 h 40°C (Convection oven)
Pressing	1 h 23°C	■ 1h 23°C ▨ 1h 40°C

DFT 35 µm

100 g / cm³

Tack

Seal (peeled off)

	without	Sillitin Z 89	Sillitin V 88
Tack	Low	High	High