

# NEUBURG SILICEOUS EARTH IN UV-CURING WOOD COATINGS: TRANSPARENT PRIMER POLYETHER ACRYLATE

## OBJECTIVE

Comparison of **Neuburg Siliceous Earth** to competitive fillers in relation to

- Sedimentation
- Optical properties
- Abrasion resistance

### Competitive Fillers:

Talc  
or  
Clay  
or  
Mica



### Neuburg Siliceous Earth:

Sillitin V 88  
or  
Aktisil MAM

## FORMULATION

	Control no filler	with filler
Laromer PO 84 F	100	100
Filler	-	10
Omnirad 500	3	3
<b>Total [parts by weight]</b>	<b>103</b>	<b>113</b>

Curing: mercury UV lamp at 80 W/cm; speed 15m/min; two passes

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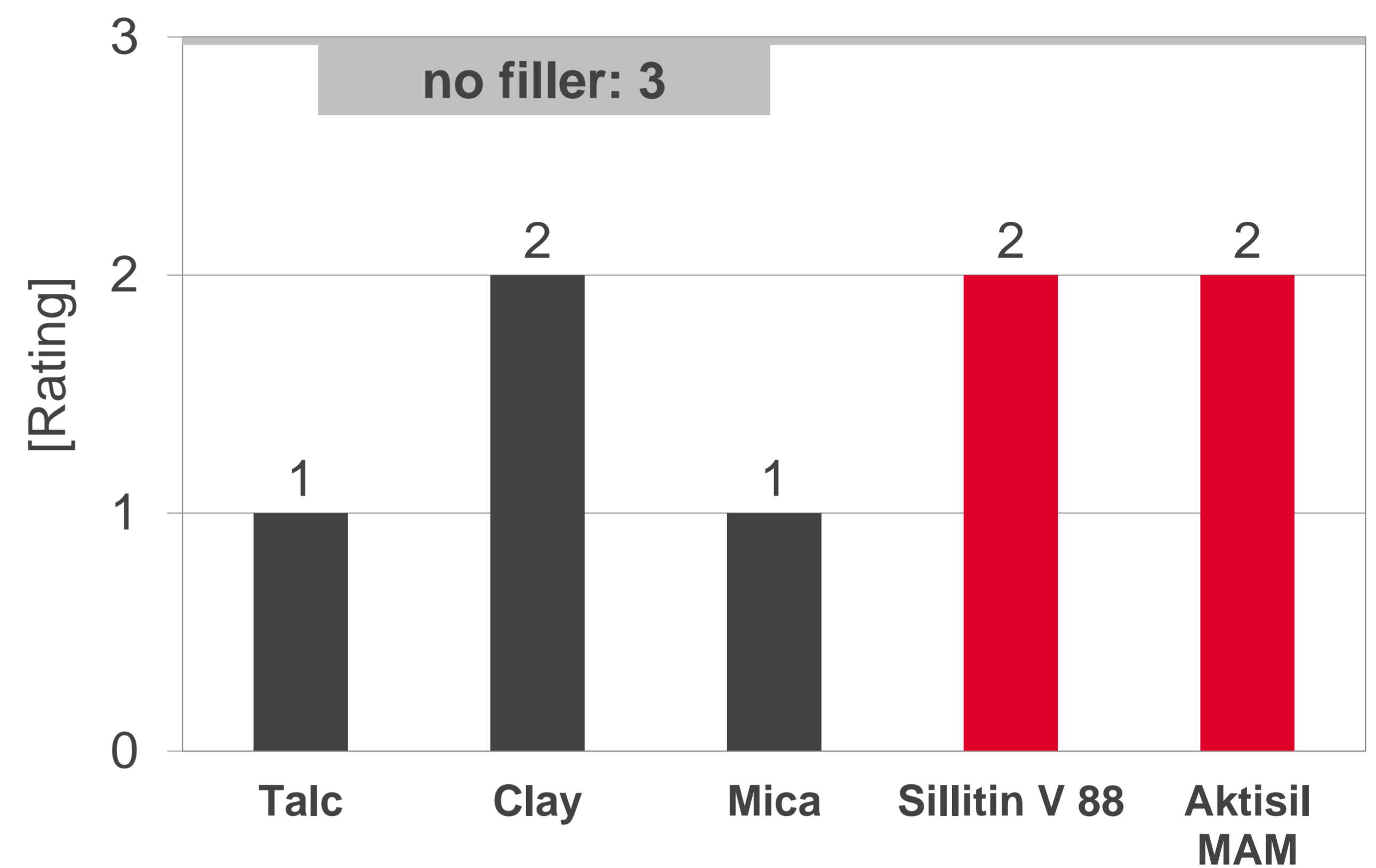
## RESULTS

### Sedimentation

	after 1 d	after 7 d
Talc	no	no
Clay	no	yes
Mica	no	yes
<b>Sillitin V 88</b>	<b>yes</b>	<b>yes</b>
<b>Aktisil MAM</b>	<b>no</b>	<b>no</b>

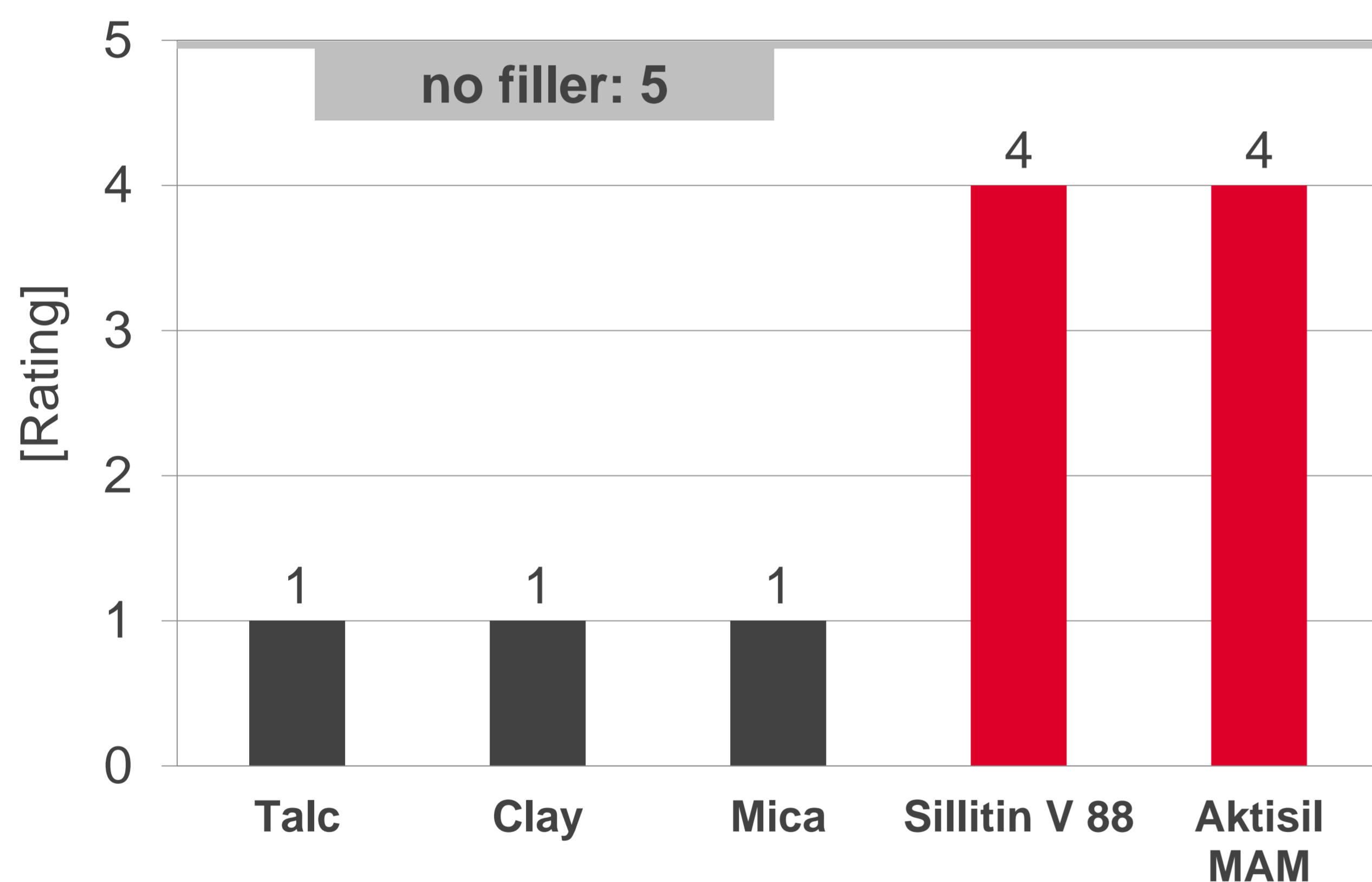
### Inherent Color of the Varnish

1 = gray; 2 = low; 3 = none



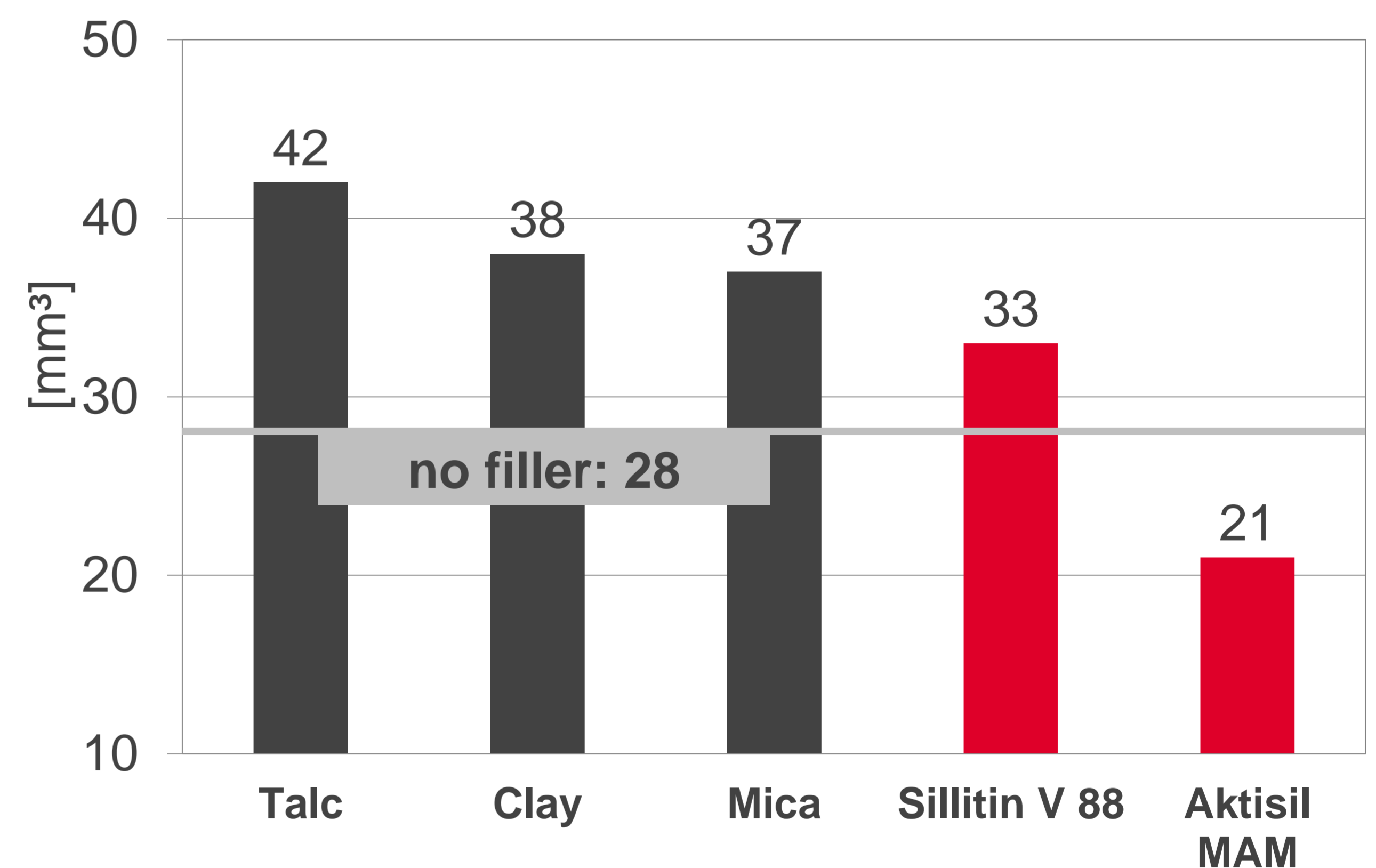
### Transparency of the Film

0 = not acceptable; 5 = excellent



### Abrasion Loss

Taber CS 10, 1 kg, 55 rpm, 1000 revolutions



## SUMMARY

**Neuburg Siliceous Earth** offers:

- low inherent color of the varnish
- good film transparency
- high abrasion resistance
- sandability by machine is maintained

Especially with **Aktisil MAM**:

- lower sedimentation tendency
- significantly improved abrasion resistance

**Sillitin V 88** offers good properties as a cost-effective filler.

**Aktisil MAM** is an optimal filler in transparent UV-curing parquet primers for dark and light woods.

**HOFFMANN**  
**MINERAL**