## NEUBURG SILICEOUS EARTH IN ROAD MARKING PAINT WHITE, SOLVENT-BASED

## OBJECTIVE

Cost saving and performance enhancement through implementing Neuburg Siliceous Earth even with less titanium dioxide content

## FORMULATION

## Typical ROAD MARKING solvent-based white formulation \*

<ul> <li>* Base formulation by DIC Performance Resins</li> <li>** Burnock AC 4010 (60% in Butylacetate)</li> </ul>	Control	Full substitution NCC	Partial substitution NCC (50%) and full substitution talc	Full substitution NCC and partial substitution TiO <sub>2</sub>
Titanium dioxide	90.9	90.9	90.9	72.0 / 70.0
Talc 6 µm	22.7	22.7		22.7
Calcium carbonate NCC fine (5 µm)	181.8	_	90.9	
Sillitin V 88 / Z 89	-	175.1	108.6	187.1 / 188.3
Calcium carbonate NCC coarse (15 µm)	277.3	277.3	277.3	277.3
Styrene acrylate ** solvents and additives	386.2	386.2	386.2	386.2
Total	958.9	952.2	953.9	945.3 / 944.5

## RESULTS AND SUMMARY

By using Neuburg Siliceous Earth:

- Color space is maintained
- Hiding power is improved, so that either lower film thickness can be applied or titanium dioxide concentration can be reduced
   Despite of more than 20 % lower titanium dioxide content, the hiding power remains completely preserved
- Drying time according to DIN 53150 (stage 4) is reduced between 10 and 25 min
- Abrasion resistance is improved, especially if talc is replaced

The best price performance ratio is provided by Sillitin Z 89, for higher color neutrality Sillitin V 88 is recommended.

The calcined grade Silfit Z 91 is the most suitable for highest color demands (not tested in this study).



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## RESULTS













