



# Product Data Sheet

## SYLVACOTE® 4983 (Formerly AI 293-53)

Sylvacote® 4983 is a modified glycerol rosin ester designed for use as a binder in high quality thermoplastic traffic line compounds. Sylvacote® 4983 is produced in Europe.

Sylvacote® 4983 most important feature is the increase in performance through improved adhesion to (mixed-in and drop-on) glass beads, non-skid aggregates and the road. The relatively low melt viscosity and higher thermal stability when compared with typical non rosin ester resins, permits higher filler loading in screed/extrusion applied thermoplastic formulations or makes it an ideal binder for spray applied compounds.

Sylvacote® 4983 is biobased. Sylvacote® 4983 most basic and important raw materials are rosin and glycerol. Rosin has it's origin in pine trees, perhaps the most renewable resource around and glycerol is abundantly available as part of vegetable oils.

Sylvacote® 4983 can be plasticized with mineral oil or tall oil esters and is compatible with the more polar type elastomers such as the higher vinyl acetate containing EVA's.

### FEATURES

- Light initial colour and stability
- Excellent thermal stability
- Good initial and long term retro-reflectivity
- Biobased
- Excellent adhesion with glass beads, anti-skid aggregates and the pavement.
- Excellent oil & gas resistance
- Stable in viscosity

PROPERTIES	SPECIFICATIONS
Softening Point, Ring & Ball, °C	100 – 110
Colour, Gardner, 50wt% in toluene	Max. 7
Acid Value, mg KOH/g	30 - 45
	TYPICAL VALUES
Flash Point, °C	> 200

<b>HANDLING &amp; STORAGE</b>	Sylvacote® 4983 should be stored indoors in the original, unopened and undamaged packaging in a dry place, preferably below 25°C and away of all sources of heat.  Under the above mentioned storage conditions the shelf life of Sylvacote® 4983 will be 6 months ex works.
<b>SHIPPING CLASSIFICATION</b>	Not classified
<b>CN CODE</b>	3806.3000
<b>PACKAGING</b>	Sylvacote® 4983 is available in 25 kg paper bags and in big bags (500/1000 kg)
<b>HEALTH &amp; SAFETY</b>	Please refer to Material Safety Data Sheet



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