

# ERWIN CHEMICAL LABORATORY

CHEMICAL - ANALYSIS - CONSULTING - DEVELOPMENT - RESEARCH

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(305) 448-4985

FAX (305) 264-3785

American Sealant International  
P.O. Box 1400  
Winter Haven, Florida 33882

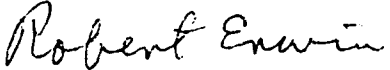
August 4, 1992

The following is a report on the analysis of a sample of Tire Sealant received June 22, 1992.

Volatile matter	78.2%
Solids (non-volatile)	21.4%
Ash	1.2%
Organic matter	20.2%
Polyvinyl alcohol	12.0%
Glycerine	3.8%
Organic Fibers	4.2%
Ash	Misc. Calcium & Sodium
Flash Point	none to boil
Evaporation in sealed plastic	<1.0%
Attack on rubber	none to date

\* Accelerated aging = 4-5 months

Respectfully submitted,



Robert Erwin, FAIC  
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December 16, 1994

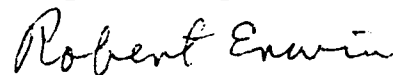
American Sealant International  
P.O. Box 1400  
Winter Haven, Florida 33882

e-0621965

The following is a report on the observations and technical studies made of the product "Flat Free" during the last year and a half of analysis and testing.

It was observed that a tire, when treated with the product, using the proper quantity, would result in a layer of material, with its high Glycol content, would tend to increase the thermal conductivity of the tire due to changing the heat transfer inside the tire. With this being the case, it should act to reduce the heat build-up in the tire.

Respectfully submitted,



Robert Erwin, FAIC  
ERWIN CHEMICAL LABORATORY

RE/lp

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November 8, 1993

American Sealant International  
P.O. Box 1400  
Winter Haven, Florida 33882

c-0721988

Attn: Miguel Diaz

The following is a short discussion on the effect and result of injecting your product (Flat Free) into a normal automobile tire.

The material is injected into a soft or evacuated tire with the normal procedure. Immediately the tire is rotated; such as a short drive to allow the material to spread evenly around the inside of the tire.

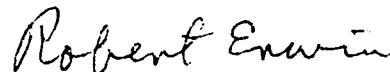
This even spreading is due to the normal centrifugal force making the free material move to the outside of the tire. As the tire continues to rotate the centrifugal force makes the layer of material achieve a uniform layer.

If the quantity of material used is proper; it will achieve a permanent thin layer.

Even if there is some settling upon long standing; this will be returned to normal after a short run.

Our eighteen months of testing have shown this material to properly seal small holes in the tire without any bad reactions or change in tire balance.

Respectfully submitted,



Robert Erwin, FAIC

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RE/lp