

SCRAP TIRE PROGRAM
RUBBER MODIFIED PAVEMENT RESOURCE CENTER

Scrap tires can be utilized in paving roads and pathways. Scrap tires are broken down, cleaned, and ground into crumb rubber that is added to the asphalt mix. Benefits from utilizing rubberized pavement can include improved resistance to rutting and cracking, lower lifetime costs, better ride quality, and reduced road noise.

This page provides resources related to utilizing rubberized pavement for roads and pathways. For questions about scrap tire recycling and rubberized pavement application, please contact Kirsten Clemens at EGLE-ScrapTire@Michigan.gov.

RESOURCES

- [**Rubberized Pavement Toolkit, Michigan Technological University \(2023\)**](#)

Interactive tool utilizing average daily traffic (ADT) and Pavement Surface Evaluation and Rating (PASER) data to list rubberized pavement selection options.

- [**State of Knowledge Report on Rubber Modified Asphalt**](#), Buttlar, W., Roth, P. (May 2021)

Provides a review of the historical development, use, production methods, performance, economics, safety, environmental impact, and sustainability benefits of rubber modified asphalt.

- [**Rubber Modified Asphalt Historical Performance Study**](#), Haider, S., Zhanping, Y., & Bandara, N. (November 2022)

Study summarizes rubber modified asphalt's historical performance in Michigan and evaluates the Pavement Surface Evaluation and Rating (PASER) data, cost per ton, traffic volume data, aggregate types, construction types, and different RMA technologies.

- **Rubberized Pavement Road Owners Resource Guide**, You, Z., Dongzhao, J., Michigan Technological University (October 2023)

Provides information and guidance for including ground tire rubber onto Michigan pavements during design process.

- [**Scrap Tire Market Development Study**](#), Michigan Department of Environment, Great Lakes, and Energy, RRS (January 2020)

Summary report identifying best management practices for scrap tire recycling industry with strategic recommendations to build on the success of Michigan EGLE's scrap tire market development grants.

- [**Scrap Tire Market Participant Directory**](#), Michigan Department of Environment, Great Lakes, and Energy, RRS (January 2020)

Directory of scrap tire market participants including manufacturers, haulers, recyclers, processors, tire derived fuel facilities, and others.

- [**100 Miles of Rubber Chip Seal**](#), Michigan EGLE, Entech (October 2021)

Video sharing information on history, process and benefits of rubber chip seal.

- [**Rubberized Pavement Workshop**](#) (November 8, 2023)

- [**John Sheerin Presentation**](#) – USTMA Overview
- [**Dr. Buttlar Presentation**](#) – RMA: The Business Case
- [**Dr. Haider Presentation**](#) – RMA Historical Performance Study
- [**Dr. You Presentation**](#) – Introduction of Rubberized Pavement Maintenance Toolkit