



Transit Coating Remover

1 Scope

This specification covers the requirements for materials designed to remove 9982223 transit coating from vehicles. These coatings typically require hand application but may also be developed for use in an automated car wash system.

1.1 Material Description. This remover is used to remove a specific approved transit coating and is not interchangeable with other transit coatings approved to 9982223.

1.2 Symbols. Not applicable.

1.3 Applicability. These transit coating removers are designed to remove transit coatings that have been applied over assembled automotive vehicles.

2 References

Note: Only the latest approved standards are applicable unless otherwise specified.

2.1 External Standards/Specifications.

SAE J2527

2.2 GM Standards/Specifications.

9982223

GMW3059

GMW14873

2.3 Additional References.

TMC003 Material Safety Data Sheet guidance documents (available at www.gmsupplypower.com).

3 Requirements

3.1 Material Requirements. As part of the initial submission package, the following information must be provided:

3.1.1 Complete material identification by code, batch, general chemical composition and physical description.

3.1.2 Material Safety Data Sheets.

3.1.3 Volatile Organic Content (VOC).

3.1.4 Material disposal requirements and all other health and safety concerns/control methods.

3.1.5 Health and Safety. The remover must meet all local federal standards for air quality and waste water treatment.

3.2 Processing Requirements. The product must have sufficient latitude to perform in the range of conditions typically encountered at a dealership or port of entry. The following information must be provided by the supplier.

3.2.1 Application equipment and procedure.

3.2.2 Remover mixing directions:

- Concentration
- Water temperature

3.2.3 Soak Time and Agitation Requirements. Target is full transit coating removal after 1 to 2 minutes of contact with the remover.

3.3 Performance Requirements. Total transit coating removal must be achieved with one application of remover after the following 9982223 transit coating tests.

3.3.1 Heat age for 168 h at 82 °C (180 °F).

3.3.2 Spotting resistance.

3.3.3 Rust resistance.

3.3.4 Environmental cycle, followed by spot resistance.

3.3.5 Florida exposure of 2, 4, 6, and 12 months (GMW14873).

Note: Two (2) applications of remover are allowed if required after the 6 month and 12 month exposure intervals.

3.3.6 Xenon exposure for 250 kJ and 500 kJ (SAE J2527).

3.3.7 Compatibility with Other Components. Testing with generic components is required for approval. Prior to release to a specific plant, any other components that may be in contact with the remover must also be evaluated.

3.3.7.1 There must be no swelling, softening, absorption, or color change of rubber or plastic parts (wiper blades, grommets, moldings) after 4 h immersion in the remover at recommended maximum concentration and starting temperature of 65 °C (150 °F) (solution will cool to room temperature). Components must also be exposed in undiluted solution to establish worst case conditions.

3.3.7.2 There must be no color change, hazing, etching, cracking, or other appearance or performance changes to moldings; decals; glass; chrome; aluminum; and black, red, and white topcoat samples when exposed to drops of remover under the same conditions as 3.3.7.1. Allow drops to remain on samples for 6 h and then rinse.

3.3.8 Source Shipment Responsibility. It will be the responsibility of the supplier to insure that the material is not exposed to temperatures during shipment which would cause the material to fail to meet any of the requirements of this specification.

4 Manufacturing Process

Not applicable.

5 Rules and Regulations

5.1 Legal Regulations. All materials must satisfy applicable laws, rules, regulations and recommendations valid in the country of usage.

5.2 Language. In the event of conflict between the English and domestic language, the English language shall take precedence.

5.3 Inspection and Rejection. Samples of components or materials released to a GM material specification shall be tested for conformity with the requirements of this material specification and approved by the responsible Engineering department prior to commencement of delivery of bulk supplies.

A new approval must be received for any changes, e.g., properties, manufacturing process, location of manufacture, etc. If not otherwise agreed, all testing and documentation normally required for initial release must be completed.

It is the responsibility of the supplier to inform the customer in a timely manner, without solicitation, and to include documentation of all modifications of materials and/or processes and to apply for a new release.

5.4 Material Safety Data Sheets/Safety Data Sheets (MSDS/SDS). For new product submissions, or when a change in chemical composition of an existing product has occurred, a complete copy of the Material Safety Data Sheet/Safety Data Sheet must be submitted in compliance with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) requirements or other country-specific MSDS/SDS requirements. In addition, product MSDS/SDS submissions must be in compliance with specific country General Motors TMC003 Material Safety Data Sheet/Safety Data Sheet guidance documents where available.

5.5 All materials supplied to this standard must comply with the requirements of the International Material Data System (IMDS) and GMW3059, **Restricted and Reportable Substances**.

6 Approved Sources

Materials supplied to this specification must be approved by General Motors.

The appropriate GM Materials Engineering Department (Product Engineering or Manufacturing Engineering) must confirm materials as meeting the requirements of this specification. Only materials/sources listed in the GM Materials File (MATSPC) under this standard number have been qualified by Engineering as meeting the requirements of this standard.