



Aftermarket Repair Systems for Dealership Warranty Work Primer/Basecoat/Clearcoat

1 Scope

1.1 Material Description. This specification covers the requirements for primer/basecoat/clearcoat aftermarket repair systems used for GM dealer warranty work.

These two (2) component (2K) systems shall be ambient temperature (minimum 20 °C (68 °F)) cured or forced cured at ≤82 °C (180 °F).

These repair technologies are designed to repair original equipment manufacturer (OEM) basecoat/clearcoat (BC/CC) systems, but are of different formulations and/or chemistries than typical OEM products. This specification also includes repair to plastic components like thermoplastic polyolefin (TPO) fascia parts.

1.2 Symbols. Not applicable.

1.3 Applicability. This specification applies to all exterior paint repair systems for use on vehicles and painted parts.

1.4 Remarks.

1.4.1 The primer, basecoat and clearcoat are 2K materials of varying chemistries. The 2K materials are typically higher in volatile organic compounds (VOC) than OEM systems and must comply with local, state, and federal emission regulations.

1.4.2 Primers, basecoats, and clearcoats approved to this specification are a system and not interchangeable. Only the specified metal pretreatment wipes (e.g., Henkel Bonderite 1455 wipes, per the Henkel technical data sheet recommendations), anticorrosion primer, primer-surfacer, and BC/CC systems tested and approved to this specification can be used for GM warranty work as an aftermarket repair. Pigments used in these materials must exhibit the same durability properties as those used on OEM paint materials.

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.

GMW3005	GMW14333	GMW14729	GMW15187
GMW3059	GMW14700	GMW14829	GMW15777
GMW14124	GMW14701	GMW14873	GMW16826
GMW14270			

2.3 Additional References.

- Approved Refinish Material Technical Data Sheet (TDS)
- GM Materials Approved Source List (see GM SupplyPower and or GMW14270 for latest location)
- Safety and Industrial Hygiene (S&IH) Technical Standard (TS), S&IH TS 3.4-160-02

3 Requirements

A submission letter, a material safety data sheet (MSDS), and the basic product and physical property information of all materials must be provided to the responsible engineer prior to any testing. The responsible

GM engineers will establish any additions or changes to this specification and agree upon what substrates, associated materials, and control materials are to be used in the submission. The supplier must then provide all applicable additional product information.

3.1 Panel Requirements for Rigid Systems. All testing specified in 3.2 of this document must be completed and approved to this specification for use as GM warranty repair material. Report all results on a spreadsheet, labeling all tests, colors, and panel preparations. Controls will be current OEM systems.

3.1.1 Panel Preparation. Four (4) OEM colors must be tested which include white, light metallic, red mica, and black.

3.1.1.1 Primer. The OEM panels shall be prepared with approved pre-treatment, electrodeposition/electrocoat (ELPO/e-coat) primer and primer surfacer at target film and target bake, or as agreed upon by the responsible GM engineer.

3.1.1.2 Basecoat and Clearcoat. BC and CC for these panels are to be prepared at target film build and target bake, or as agreed upon by the responsible GM engineer.

3.1.2 Panel Repairs. Spot (Figure 1) or half panel repairs (Figure 2) are to be carried out to show how well the repair edge can be blended with the OEM paint finish. All repair paint layer thicknesses must be applied per the target range and baked (where applicable) to target range per the refinish paint suppliers approved refinish material technical data sheet (TDS).

Figure 1: Spot Panel Repair Layers for Blending with the OEM Paint Finish

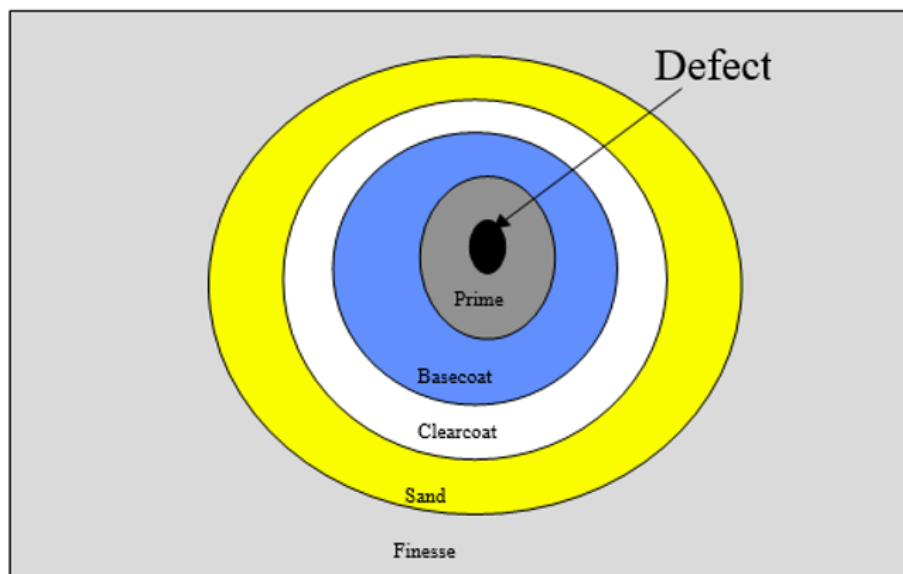


Figure 2: Half Panel Repair Layers for Blending with the OEM Paint Finish

