



CATALYST, ACID-ACRYLIC REPAIR ENAMELS (50/50 BLEND, MONOBUTYL MALEATE/MONOBUTYL PHOSPHATE)

ESB-M99J228-C

1. SCOPE

The material defined by this specification is an acid catalyst solution.

2. APPLICATION

This specification was released originally for material used to convert standard high bake acrylic solution and non-aqueous dispersion (NAD) enamels to low bake enamels for repairing passenger and commercial vehicles.

3. REQUIREMENTS

3.1 SPECIFIC GRAVITY, 15.6/15.6 °C 0.895 - 0.955
(ASTM D 891)

3.2 ACID NUMBER 155 - 240
(ASTM D 1467)

3.3 FLASH POINT, C, min 21
(ASTM D 56)

3.4 COMPOSITION (Percent by Weight)

Normal butyl alcohol	53
Xylol	9
Monobutyl maleate	27
Monobutyl phosphate	11

3.5 QUANTITY REQUIRED FOR CONVERSION 3
(% By Volume)

3.6 PERFORMANCE

Appearance, gloss, hardness and intercoat adhesion of a catalyzed enamel applied over a high bake uncatalyzed enamel shall be satisfactory.

Test Method:

Determine performance of catalyst in ESB-M32J100 Acrylic Enamel, ESB-M50J100 NAD Enamel or both as applicable. Prepare 2 panels of uncatalyzed enamel (ZWFAXXA White, preferred) per FLTM BI 103-02, Method C. Scuff sand one-half of each panel, lengthwise. Two samples of the unreduced enamel are catalyzed per para 3.5, one with the catalyst under test and one with a previously approved batch of catalyst for control.

Reduce each sample to spraying viscosity and apply 31 – 38 micrometers over one-half of a panel, crosswise, so that the catalyzed enamel is applied over the scuffed and unscuffed portions of the high bake enamel (bake 20 minutes at 83 °C). Test for appearance and gloss versus the uncatalyzed portion of the panel, hardness (approximately 20 Sward) and intercoat adhesion. The catalyst under test shall be equal to the control in all cases.

Date	Action	Revisions
2005 09 13	Revised	Inserted 3.0; deleted 3.7, 3.8, 3.9, 3.10, 3.11 and 4
1995 03 01	Revised	Inactivated ESB-M99J228-A & ESB-M99J228-B
1963 11 05	Released	AS1-1142





5. GENERAL INFORMATION

The information given below is provided for clarification and assistance in meeting the requirements of this specification.

5.1 FLAMMABILITY AND/OR TOXICITY

This material represents a potential fire and/or health hazard. The Manufacturing Engineering Department shall notify both the Plant Security and the Safety Units of its presence in the Plant to assure that proper fire and/or health precautions are provided. The location in which it is used or stored shall be included in the notifications.