Engineering Material Specification

Material Name	Specification Number
PRIMER - EXEMPT SOLVENT - BLACK	ESA-M6J27-C

1. SCOPE

The material defined by this specification is a black flash primer.

2. APPLICATION

This material was originally released as a coating for steering column outer tubes.

3. REQUIREMENTS

3.1 COMPOSITION

3.1.1	Non-Volatile, min FLTM BI 2-1	47%

3.1.2 Exempt Solvent

The volatile portion shall not be photochemically reactive as defined below:

A photochemically reactive solvent is any solvent with an aggregate of more than 20% of its total volume composed of the chemical compounds classified below or which exceeds any of the following individual percentage composition limitations, referred to the total volume of solvent:

(1) A combination of hydrocarbons, alcohols, aldehydes, esters or ketones having an olefinic or cycloolefinic type of unsaturation - 5%.

(2) A combination of aromatic compounds with eight or more carbon atoms to the molecule except ethylbenzene - 8%.

(3) A combination of ethylbenzene, ketones having branches, hydrocarbon structures, trichloroethylene or toluene - 20%.

Whenever any organic solvent or any constituent of an organic solvent may be classified from its chemical structure into more than one of the above groups of organic compounds, it shall be considered as a member of the most reactive chemical group, that is, that group having the least allowable percent of the total volume of solvents.

Date	Para. No.	Revisions	Approved
			D Thompson 9/24/79
1979 08 28			E. P. Francis 9-28-79
1978 09 22	6-28-79 ✓	Released CAJ2-CVJ2-CSJ2-CBJ2-CZJ2-823541	

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3.1.3 Specific Composition

3.1.3.1 Volatile Portion

Suppliers shall furnish, on request, certification of conformance to Section 3.1.2 of this specification to Ford Motor Company Purchasing, AAD, Paint Operations and the Assembly Plant involved for each color supplied.

3.1.4 Toxicity

This material shall contain no benzol (benzene), chlorinated or other toxic compounds, or hydrolyzable chlorine derivatives, nor have an obnoxious or objectionable odor.

3.2 PHYSICAL PROPERTIES

3.2.1	Viscosity FLTM BI 11-1	26-34S
3.2.2	Weight	1.13-1.25 Kg/l

3.2.3 Stability

The material shall not jell nor liver on standing.

Test Method: Place a sealed pint can, 3/4 filled with the material, in an oven for 16 hours at 60°C. An appreciable increase in viscosity (approximately 15 seconds) shall indicate non-stability.

3.3 FILM PROPERTIES

3.3.1 Adhesion

Shall be satisfactory when tested per Ford Laboratory Test Method BI 6-1.

3.4 RESISTANCE PROPERTIES

3.4.1 Water Immersion

There shall be no failure by loss of adhesion after 96 hours water immersion per Ford Laboratory Test Method BI 4-1.

3.5 SUPPLIER'S RESPONSIBILITY

Material supplied to this specification must be equivalent to that originally approved. Changes in formulation or processing shall not be made without prior approval as described in Supplier Procedure I-A.

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