



RUST PREVENTIVE, WAX, SOLVENT BASED

WSS-M7C80-A3

1. SCOPE

The material defined by this specification is a solvent based rust preventive compound consisting of waxes and resins for use on vehicle bodies and components. It may also be used in the aftermarket.

2. APPLICATION

This specification was originally released for material used to protect uncoated metal surfaces at the vehicle body, as well as for body assembled parts, knuckles, stabilizer bars, control arms, brackets, tow hooks fuel system components, etc. The material is applied to the assembled vehicle respective component. It dries to a sufficiently hard film to withstand normal handling during assembly and vehicle use.

Note: This material is not intended for cavity protection; please consider WSS-M7C79-B2 instead.

3. REQUIREMENTS

3.1 APPROVED SOURCES

This specification requires the use of approved sources. Only the sources identified on the Ford Approved Source List (ASL) can be used when this specification is listed on the drawing, CAD file, or other documents. The list of approved sources is located within Ford at www.mats.ford.com or available externally through a Ford Materials Engineer.

3.2 PHYSICAL PROPERTIES

3.2.1 Non Volatile (FLTM BI 102-01) 15% min (not for Aerosols)

3.2.2 Storage Stability, min

The storage stability must be adapted to the climate conditions at the individual plant.

Min storage conditions for all waxes: 6 months at 32 °C 12 months at 32 °C

And 6 months at 5 °C 12 months at 5 °C

Additionally for tropical climates: 3 months at 40 °C 12 months at 40 °C

After the storage, the material shall not show any insoluble separation or coagulation and must meet all specification requirements.

3.2.3 Density (ASTM D1475) See Initial sample +/- 0.05 g/mL

3.2.4 Creeping Ability, (FLTM BJ 128-02) 20 mm min

Date	Action	Revisions	Rev 03
2015 10 09	Revised	Separated A A3 see summary of revisions.	U. Mueller, EU
2007 08 22	Revised	Added WSS-M7C80-A3 & para 3.7.10; Revised 2., 3.4.1, 3.4.2, 3.4.3, 3.4.4 & 3.6.4	Rodrigues
1991 02 01	Released	C01089481000	CD, KS



3.3 PREPARATION OF TEST PANELS

3.3.1 Substrate

Lab tests are for initial approval only. They shall be performed on standard test panels at 30 - 40 micrometer film thickness. Lab test results are superseded by results from the proving ground evaluation.

3.3.2 Application Procedure, Laboratory

Stir the wax for 15 minutes at 23 +/- 2 °C, unless otherwise recommended by manufacturer. Shake-up spray cans as required by the supplier.

Application method required:

- a) Airless spray or
- b) Air assisted spray
- c) Aerosol spray

After the required film thickness has been achieved, the reverse side of the panel can be wax sprayed with a thin film to provide protection during test. Do not protect edges with special actions.

3.4 DRY FILM PROPERTIES

Wax material must be suitable to form a closed continuous layer without voids and bubbles. After drying, the wax shall be sufficiently hard to withstand normal handling during final assembly without damage. It may be slightly tacky but must not stain cables, trim parts or clothing.

3.4.1	Dry Film Thickness (FLTM BI 156-01)	30 – 40 µm
3.4.2	Color	Light beige or clear
3.4.3	Appearance	Smooth homogeneous film
3.4.4	Drying Time	
	Touch dry*	25 minutes
	Fully cured	24 hours

*The wax shall be resistant against water impingement after the required time at 23 +/- 2 °C.

3.5 RESISTANCE PROPERTIES

3.5.1 Resistance to CETP 00.00-L-467 accelerated cyclic corrosion test

Zn-coated steel and CRS test panels:

Appearance: No surface corrosion, no edge corrosion	4 weeks
Function: Max. Rust Grade 3 at open metal surfaces	6 weeks
No malfunction (with components only)	9 weeks

Evaluation after removing of the wax

