



PRODUCT LINES

Technical Bulletin

Effective January 2005

PRODUCT DATA: #202 FLUID FILM® GEL BW

DESCRIPTION:

Permanently soft gel coating for all metals. Will not evaporate. Environmentally friendlier. Solvent free. Non-toxic.

GENERAL USAGE:

Anti-corrosive coating for all metals. Protects against attack by moisture, salt solutions and atmospheres in marine, agriculture and industrial environments. Applications are made to _anisters, structure, and other equipment requiring protection from corrosion for extended periods.

Not recommended for extended exposure to bright sunlight. For these applications use FLUID FILM® GEL BEW (Exterior). See Technical Bulletin #202.3.

If conditions dictate a heavier or lighter coating or lubricant, refer to other EUREKA CHEMICAL product bulletins for semi-liquids, gels and greases or consult EUREKA CHEMICAL COMPANY.

PARTICULARS FOR HEAVY MARINE:

SURFACE PREPARATION:

New Construction: No sandblasting required. Remove any loose mill scale. Welding flux residues must be removed by wire brushing followed by washing with clean water. Clean up all debris. If surface has been shop primed with inorganic zinc, do not coat until the zinc has been cured a minimum of 30 days.

In Service Equipment: No sandblasting required. Remove flaking rust and peeling paint. Break all blisters larger than 25mm (one inch). Remove all standing water. Clean up all debris and silt. May be applied over tightly adhering rust. Residual coal tar and asphalt coatings must be removed to leave a thickness of no more than 50 microns (0.002 inches). If surface is heavily scaled, consult your Eureka representative. For further details, see Technical Bulletin #202.4.

APPLICATION:

NUMBER OF COATS:	One.
TYPICAL COVERAGE PER DRUM:	146m ² (1,571 ft ²) at 1.44 mm (56 mils) thickness for new steel. 127m ² (1,367 ft ²) at 1.64 mm (64 mils) for rusty steel. On very heavy rust, visual inspection is required for best thickness recommendation.
THINNING:	Do not thin.
CURING TIME:	None. Equipment may be used immediately after coating.
METHODS:	Airless spray, roller, brush.
HEATING REQUIRED: water	Under extreme cold conditions, drums should be placed in a hot bath or hot room kept at 110 ⁰ F. GEL BW is a poor conductor of heat energy. Consequently, two days should be allowed to totally warm a drum to the core.
SPRAY EQUIPMENT:	Alemite 7896 pump (22/1 ratio) or equal, and a flow gun. See Technical Bulletin #202.1.
CLEAN UP:	Rags and kerosene.
PROTECTIVE EQUIPMENT:	When spraying use approved eye protection to safeguard against potential eye contact. Use respirator or gas mask with appropriate cartridges and _anisters (NIOSH approved, if available) to remove oil mist. If making repairs by brush, a respirator is not required.

PROPERTIES (Typical):

SPECIFIC GRAVITY:	0.915 – 0.925
COLOR: (ASTM-D1535)	<u>White</u> : 2.5YO / 2 or lighter.
FLASH POINT: (ASTM-D92) Cleveland Open Cup	207 ⁰ C (405 ⁰ F)
UNWORKED PENETRATION: (ASTM-D217)	201 – 223
SPECIFIC CONDUCTIVITY:	Less than 10 ⁻⁹ mho/cm @ 1M HZ.
EFFECT ON RUBBER: (ASTM-D471 @ 158 ⁰ F, 70 hours).	None on neoprene, buna-n and most synthetics. Some swelling on Natural rubber.
EFFECT ON ALUMINUM:	No pitting.
EFFECT ON COPPER, BRASS:	No staining.
EFFECT ON STEEL:	No hydrogen embrittlement.

DROPPING POINT:
(ASTM-D566)

96°C (205°F). **This value is given for information purposes only**
and is not to be construed as a recommendation for maximum
temperature use.

TOXICITY:
(Tests performed by outside
laboratory using standard
methods.)

Oral: LD₅₀ greater than 16ml / kilogram (relatively harmless).

Skin Irritation: Score 0.83 (minimal irritation). Title 16 CFR
Section 1500.41.

Eye Irritation: Negative. Title 16 CFR Section 1500.42.

PERFORMANCE:

Salt Fog (Inches/Year):

a. ASTM-D117 (5000 hours) 0.00016
b. Mil-C-23050 0.00020
(maximum allowed 0.005)

Simulated Ballast Tank:

Mil-C-23050 0.00053
(maximum allowed 0.005)

NOTE 1: When welding in tanks coated with FLUID FILM[®], wipe material back a distance of 1.2 meters (4 feet) from where hot work is to be performed and from the deck area beneath the hot work. See Technical Bulletin #202.2.

NOTE 2: If FLUID FILM[®] is applied over metal covered with scale, even though tightly adhering, anodes must not be present. If the anodes are not to be removed, then the surface must be cleaned to conform to Steel Structures Painting Council SSPC-SP3.

NOTE 3: Maximum usable temperature is 65°C (150°F). Ballast tanks should be filled with water 4 to 5 days before hot cargo taken on in those cargo tanks that are adjacent to ballast tanks.

Keep out of reach of children.
This document is subject to revision without notice.



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