

RUSSTECH[®]

RUSSTECH FR-55-VOC

LOW-VOLATILE CONCRETE FORM RELEASE AGENT

DESCRIPTION:

RUSSTECH FR-55-VOC is a proprietary blend of organic materials that promote clean and easy separation from all types of forms while deterring build-up and sticking. The reaction of **RUSSTECH FR-55-VOC** creates a metallic soap that reduces bonding/adhesion while promoting quick and clean stripping. The reactive organic compounds provide maximum performance to precast concrete, concrete forming, prestressed concrete, etc.

RUSSTECH FR-55-VOC is non-staining and works well with white, gray or colored concrete. Bug holes are minimized due to the metallic soap-minimizing adherence of air to the form walls. The release characteristic, due to the formation of the metallic soap, makes the cleaning process more effective.

ADAVANTAGES:

- Carrying agent is a VOC-compliant, non-carcinogenic petroleum oil
- Non-staining, low odor
- Easy application - sprayed, swabbed or wiped
- Non-flammable and non-combustible rating
- Helps to reduce bug holes
- Cost effective
- Helps to clean forms and pallets
- DOT exempt (not considered a DOT hazardous material and exempt from placards)
- EPA VOC compliant (EPA 40 CFR-59, effective September 14, 1999)
- Ready to use, no mixing necessary
- Indefinite freeze/thaw cycles, no additional mixing necessary



APPLICATION:

Form surfaces should be dry and free from concrete build-up before **RUSSTECH FR-55-VOC** is applied. Since **RUSSTECH FR-55-VOC** is ready to use, it is not necessary to mix or dilute prior to using. Application may be done using conventional or airless spraying equipment, rollers, mops, wipe-on or any other conventional method of applying form release agents. Over application should be avoided to prevent runs or puddles, which will create voids in the finished concrete surface.

APPLICATION RATES:

*Application rates will vary depending on forms and application methods.

RUSSTECH FR-55-VOC should be applied to achieve a maximum 5-mil (.005 in.) thickness to help avoid the possibility of surface voids. On new wood forms, application rates should be 300 to 400 square feet per gallon. On seasoned wood forms, it should be applied at the rate of 500 to 700 square feet per gallon. On conventional plywood forms, it should be applied at a rate of 800 to 1000 square feet per gallon.

On high-density plywood forms, at a rate of 100 to 1300 square feet per gallon. Metal forms (steel and aluminum) rate of application will be up to 3000 square feet per gallon, with 2000 square feet per gallon being typical.

TECHNICAL DATA:

Color	Pale yellow to amber
Flash Point	275°F ASTM Method
D-93 (closed up)	
Viscosity (Brookfield)	20 CPS @ 20°C
Density	7.3 lbs./gal.
Specific Gravity	0.88 g/ml
Water Solubility	NIL
Application Rate	300 ft ² to 3000 ft ² per gallon depending on method of application and type of form being used. Refer to application on page one.

A Material Safety Data Sheet should be reviewed prior to application as it relates to safety equipment needed.

VOLATILE ORGANIC COMPOUND

DATA: Effective September 13, 1999, the United States EPA has issued VOC limitations on concrete form release agents. Reference to these regulations can be found in the Federal Register, Vol. 63, no. 176, Friday, September 11, 1998 under 40 CFR-59, [AD-FRL-6149-7], RIN 2060-AE55, National Volatile Organic Compound Emission Standards for Architectural Coatings, pages 44848-48887.

RUSSTECH FR-55-VOC is in compliance with these regulations and contains less than 3.8 lbs. per gallon/450 grams per liter of VOC compounds based on EPA Method 24.

STORAGE:

All material containers should be kept tightly closed to avoid outside contamination. Drums and pails should be kept in a vertical position. Material should be stored in a protected area. Do not store material in unlined metal containers (ductile, malleable or gray iron, steel, aluminum, brass or bronzes). Material should be stored in plastic containers, lined drums or stainless steel containers.

PACKAGING:

Available in 5 gallon pails, 55 gallon drums and 330 gallon one-way totes.

SHELF LIFE:

18 months

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