

## Fortress FR-200 (2.4:1 mix ratio)

Fortress FR-200 is a liquid concentrate formulation that uses magnesium chloride as the inorganic fire-retardant salt. Fortress FR-200 contains a thickener to provide a low viscosity product for improved drop characteristics. The FR-200 formulation contains a fugitive coloring agent, and subsequently, the color will fade over time with exposure to sunlight. Fire Retardant Salts: Fortress FR 200 uses Magnesium chloride ( $MgCl_2$ ) for its fire-retardant inorganic salt.

FR-200 does not experience a temperature change when mixed. Magnesium chloride is hygroscopic and after it has been applied to fuels it can absorb moisture from the air.

Product Type:	Low viscosity, gum-thickened, liquid concentrate.
Application:	Fixed-wing airtanker, SEATS, helicopter bucket, and ground-based fire apparatus.
Use level:	1 gallon of liquid concentrate mixed with 2.4 gallons of water will produce 3.4 gallons of mixed retardant. Each gallon of mixed retardant contains the equivalent of 3.10 pounds or approximately 0.30 gallons of liquid concentrate.
Yield:	1 ton of liquid concentrate yields 645 gallons of mixed retardant.
Viscosity:	150 – 400 centipoise (cP)  Field measurement (Marsh Funnel): <b>A flow-through time of 32 – 51 seconds using the Low Viscosity Marsh Funnel with 3/16 inch tip indicates an acceptable viscosity.</b>
Salt content:	Field measurement (refractometer): A reading of 17.1 indicates proper salt content. <b>A reading between 15.4 and 18.8 indicates an acceptable salt content.</b>
Specific weight:	9.09 lb/gal for mixed retardant; equivalent to a density of 1.090 g/mL. At 70°F, a <b>density between 1.076 and 1.099 indicates an acceptable salt content.</b> This is equivalent to <b>8.98 lb/gal – 9.17 lb/gal.</b>  Product concentrate is 1.255 g/mL or 10.47 lb/gal.