

Fire Retardant Latex

Technical Data Sheet (TDS)

Product Description

Crown Fire Retardant Latex is a non-toxic, non-combustible, fast curing water-based fire retardant coating designed for use on interior surfaces.

Product features:

- Latex formula for interior use
- Self-priming
- Low odor
- VOC Compliant
- Easy Water cleanup
- Lead, chromate, and heavy metal free
- Passes DIN 4102-B2 fire testing

Recommended Uses

Crown Fire Retardant Latex is intended for industrial applications; either new build or maintenance.

Application Areas:

- Panelling
- Non-porous substrates
- Gypsum Board
- Structural wood
- Plastic
- Foam

Mixing

Crown Fire Retardant Latex used as a Single Component

Stir each container thoroughly prior to use.

Material is packaged at a viscosity requiring little or no reduction for application by airless spray equipment. Refer to Spray Gun Setup for other methods. For other spray methods, refer to Spray Gun Setup section.

Product Characteristics

Typical Physical Properties

Gloss: Flat <10 GU at 60°

Volume Solids Single Component: 38% +/- 2%

VOC (Unreduced): TS428 Black
(EPA Method 24): 12 g/l (0.1 lb/gal)

Weight Gallon: 10.9lbs/gal ± 0.2 lb/gal

Shelf Life: 2 years at 77°F (25°C)

Note: For unopened product

IMPORTANT NOTE: KEEP FROM FREEZING

Surface Prep

Surfaces to be finished must be clean, dry and free of dirt, oil or any contamination that would adversely affect adhesion, protective properties or appearance of the coating.

All other substrates contact your Crown representative.

Application Method

Crown Fire Retardant Latex can be applied by conventional air, air-assist airless, airless, or dip.

Crown Fire Retardant Latex may also be brush and roll applied.

Apply 2 coats allowing 2 hours prior to application of the second coat.



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Spray Gun Setup

Feed Type	Fluid Tip	Application Pressures (heel of gun)	Fluid Delivery
Siphon Feed	1.6-1.8 mm	40-50 psi	
Gravity Feed	1.6-1.8 mm	30-40 psi	
Pressure Feed	1.4-1.8 mm	50-60 psi	10-14 oz/min
Air Assist Airless	0.009-0.017"	1,000-1,800 psi	
Airless	0.011-0.015"	1,700-3,000 psi	

Spray Viscosity

90-95 KU at 77°F	Reduce as necessary*
Conventional	Airless

Note: Spraying viscosity and thinning will depend on ambient conditions, spray equipment used, and the desired surface finish.

Note: Material is packaged at a viscosity requiring little or no reduction for application by airless spray equipment.

IF THINNING IS REQUIRED:

Use only water to thin this product.

Film Build

Crown Fire Retardant Latex has a recommended film build thickness of:

**Wet (unreduced): 8-12 mils wet
 (200-300 microns)**

Dry: 3.0-5.0 mils dry (75-125 microns)

Theoretical coverage at 1.0 mil (25 microns)
 DFT: 609 ft² per gallon at 100% transfer efficiency.

Dry Times

	70°F (21°C)
To Touch	30 Mins
To Handle	1 Hour
To Recoat	2 Hours
Through Dry	18 Hours

Optimum drying conditions are 60°F to 90°F (16°C to 32°C) at 50% R.H.

Note: Lower temperatures and high humidity will slow the dry time.

Surface must be dry and at least 5°F above the dew point.

Topcoating Information

Crown Fire Retardant Latex may be topcoated with most solventborne and waterborne products.

Clean Up

Clean all equipment immediately after use with water.

If the equipment will not be used for an extended period of time, do a final flush with solvent such as mineral spirits.



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Ordering Information (sizing)

Available in Gallon, 5-gallon, 55-gallon drum, and 300 gallon tote

Custom colors and sizes may be available.

Environmental Conditions

For optimum coating performance product, substrate and ambient temperature should be above 50°F (10°C). To prevent condensation during application the surface temperature must be 5°F (3°C) or more above the dew point at all times.

Note: For use outside this range please contact your Crown Representative.

Storage Conditions

Storing partially used container:

Replace lid securely.

Store away from heat or open flame.

Mix thoroughly before reusing.

Safety Precautions

Please refer to all Safety Data Sheets (SDS) before using this product. SDS sheets can be obtained by contacting Crown Paint.