



**SHORT FORM APPLICATION GUIDE
CAFCO® FENDOLITE® M-II/P
(Industrial)**



This is an abbreviated guide and is not intended as a substitute for the Long Form CAFCO FENDOLITE M-II/P (Industrial) Application & Installation Manual. Applicator shall completely and fully read and understand the Long Form Application & Installation Manual prior to applying this product.

PUMP REQUIREMENTS:

A rotor stator type, open throat, screw feed pump with minimum “No. 4” soft rubber stators must be used.

MIXER REQUIREMENTS:

Paddle or ribbon-type mortar mixer with safety cover and provision for quick dumping of mix directly into the pump hopper. Mixers with an 8 cu. ft. (227 L) capacity or larger capable of operating speeds of 35 to 40 RPM, are required.

WATER REQUIREMENTS:

One bag of product requires 3.75 to 4.25 US Gallons (14 to 16 L) of potable water per bag. **A calibrated water meter is required** to ensure constant water volume per mix.

MIX TIME:

Product is mixed by first adding potable water to the mixer and then product. Mix for three (3) minutes to achieve the target mixer slurry density. **In a multiple bag mix, the mix time begins after the last bag has been added to the mixer.**

HOSE SET-UP:

High pressure plaster type hose. Typical diameters (ID) and lengths are listed below.

<u>Total Hose Length</u>	<u>Diameter (ID)</u>	<u>Length</u>
50 ft (15 m) or less	1.25 in (32 mm)	@ 25 ft (8 m)
	1 in (25 mm)	@ 25 ft (8 m)
51 to 100 ft (15 to 30 m)	1.5 in (38 mm)	@ 50 ft (15 m)
	1.25 in (32 mm)	@ 25 ft (8 m)
	1 in (25 mm)	@ 25 ft (8 m)
101 to 150 ft (30 to 60 m)	2 in (51 mm)	@ 50 ft (15 m)
	1.5 in (38 mm)	@ 50 ft (15 m)
	1.25 in (32 mm)	@ 25 ft (8 m)
	1 in (25 mm)	@ 25 ft (8 m)

Hose couplings shall be screw-on type connect/disconnect that do not restrict product flow. Steel tapered reducers must be used when a reduction in hose is necessary. Brass or aluminum couplings or reducers must not be used.

NOZZLE REQUIREMENTS:

The spray nozzle assembly must consist of a min. 1 in. (25 mm) I.D. aluminum pole with a blow-off type nozzle cap. Nozzle orifice shall be nominal 1/2 in. (13 mm) diameter.

NOZZLE DISTANCE:

The distance between the nozzle and substrate will vary according to the type of equipment and nozzle used but must be between 6 in. (152 mm) and 18 in. (457 mm).

NOZZLE AIR PRESSURE:

Use the amount of air at the nozzle that results in an even thickness build, texture and proper density. Compressed air is required and must be delivered to the nozzle at a minimum volume of 15 cfm (420L/min) and a minimum pressure of 60 psi (414 kPa).

MINIMUM THICKNESS:

In no case may the coating thickness be less than 1/2 in. (13 mm).

APPLICATION TEMPERATURE:

Product must be applied when the temperature is between 40°F (4°C) and 95°F (35°C) and relative humidity is above 50%. A minimum substrate and ambient temperature of 40°F (4°C) shall be maintained prior to, during and a minimum of 24 hours after the application.

SURFACE PREPARATION:

Metal Lath or Reinforcing steel mesh is required. Refer to **CAFCO FENDOLITE M-II/P Long Form Application & Installation Manual** for requirements.

MULTIPLE COATS:

Allow product to "stiffen" before applying subsequent coats. A textured or well scratched surface is necessary to ensure good bonding of subsequent coats. It is optimal that subsequent coats be applied within 48 hours of preceding coats. If surface becomes dry, it must be moistened with water prior to applying further coats.

VENTILATION:

Provide a minimum of 4 complete air exchanges per hour until the material is dry.

CALCULATING MIXER DENSITIES:

1. Weigh an empty 1036cc CAFCO cup and tare the scale to account for the cup weight.
2. Fill the cup with material from the pump hopper. Then gently tap the cup on a hard surface to eliminate all air pockets.
3. Level the material with top of cup.
4. Weigh the filled cup in grams.
5. Compare weight in grams to the mixer density in chart below.

SAFETY PRECAUTIONS:

FENDOLITE M-II/P is slippery when mixed with water. Do not allow wet material to remain on scaffolds, ladder rungs or floors. Walking on wet material may result in slips or falls. Signage must be posted in areas where the spray application of FENDOLITE M-II/P is ongoing to warn other trades of slip hazards.

ESTIMATING FENDOLITE M-II/P MIXER DENSITY FROM WET CUP WEIGHTS

WET CUP WEIGHT (Grams)		MIXER DENSITY Using 4.0 US Gals (15 L) Water	
		PCF	(kg/m ³)
800		48	(769)
830	OPTIMUM RANGE	50	(801)
880		53	(849)
930		56	(897)
980		59	(945)
1030		62	(993)

Cup Size = 1036 cc

CALCULATING NOZZLE DENSITIES:

(Estimating Yield/Bag from Nozzle Wet Cup Weights)

1. Weigh an empty 1036cc CAFCO cup and tare the scale to account for the cup weight.
2. Spray the material directly into the cup. Then tap the cup on a hard surface to eliminate all air pockets.
3. Level the material with the top of the cup.
4. Weigh the filled cup in grams.
5. Compare weight in grams to the nozzle density in chart below.
6. To increase nozzle cup weight, increase atomizing air at the nozzle until target density is achieved.

NOZZLE CUP WEIGHT (Grams)	THEORETICAL DRY DENSITY Using 4.0 US Gals (15 L) Water	
	PCF	(kg/m ³)
1145	46	(737)
1195	48	(769)
1245	50	(801)
1295	52	(833)
1345	54	(865)
1395	56	(897)

Note: If you are having difficulty achieving these nozzle cup weights, please contact the Isolatak International Technical Service Department for assistance.
* Nozzle weights are based on a cup with a volume of 1036cc.

NOTE: Only the listed equipment, nozzles and procedures are approved for applying CAFCO FENDOLITE M-II/P. Deviations from these requirements will result in product not meeting claims as published in the literature. **For additional information, please contact the Technical Service Department.**



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