

*This is an abbreviated guide and is not intended as a substitute for the Long Form CAFCO SOUND-SHIELD 40 / ISOLATEK SOUND-SHIELD 40 Application and Installation Manual. Applicator shall completely and fully read and understand the Long Form Application & Installation Manual prior to applying this product.*

**PUMP RECOMMENDATIONS:**

Minimum 2L4 open throat, auger-fed, rotor stator type pump with a soft stator.

**MIXER RECOMMENDATIONS:**

Paddle or ribbon type mixer rotating at 35 to 40 RPM.  
**(Continuous mixers not recommended)**

**WATER REQUIREMENTS:**

Use 3.0 to 4.0 U.S. gallons of potable water per bag.

**MIX TIME:**

2 to 3 minutes. Do not mix more material than what can be sprayed in 30 minutes.

**HOSE SET UP:**

High pressure plaster type hose with the diameters and lengths as listed below. **Note: Brass or aluminum couplings and reducers should not be used.** Total length shall not exceed 100 ft. (30 m).

<u>Diameter</u>	<u>Length</u>
1-1/2" (38 mm)	50 ft. (15 m)
1-1/4" (32 mm)	25 ft. (7.5 m)
1" (25 mm)	25 ft. (7.5 m)

**NOZZLE REQUIREMENTS:**

Use the amount of air which achieves the desired wet slurry density and create an acceptable texture. See the SOUND-SHIELD 40 Application and Installation Guide for more details.

**SURFACE PREPARATION:**

All surfaces must be clean and free of paint, residual from oils or any condition which would prevent proper adhesion of the CAFCO SOUND-SHIELD 40 / ISOLATEK SOUND-SHIELD 40.

**All substrates or bases (except metal lath) require the use of CAFCO BOND-SEAL as an adhesive.** See the SOUND-SHIELD 40 Application and Installation Guide for more details.

**NOTE: Do not apply CAFCO SOUND-SHIELD 40 / ISOLATEK SOUND-SHIELD 40 directly to metal decking or to any painted surface.**

**APPLICATION TEMPERATURES:**

Maintain a minimum substrate and ambient temperature of 40°F (4°C) prior to, during and a minimum of 24 hours after application.

**SET TIME:**

Material will set in approximately 6 hours depending on temperature, humidity and air changes.

**VENTILATION:**

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

**CALCULATING MIXER DENSITIES:**

1. Weigh an empty 1liter cup and tare the scale to account for the cup weight.
2. Fill the tared cup with material from the pump hopper and gently tap the cup 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:**

**CAFCO SOUND-SHIELD 40 / ISOLATEK SOUND-SHIELD 40 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.** It is recommended that appropriate signage be posted in areas where the spray application of CAFCO SOUND-SHIELD 40 / ISOLATEK SOUND-SHIELD 40 is ongoing to warn other trades of slip hazards.

**EXPANSION JOINTS:**

Expansion joints are required every 10 linear ft. (3 m) of continuous coating unless "natural breaks" occur within the prescribed distance.

## ESTIMATING CAFCO SOUND-SHIELD 40 / ISOLATEK SOUND-SHIELD 40 MIXER DENSITY FROM WET CUP WEIGHTS

WET CUP WEIGHT (Grams)	MIXER DENSITY Using 5.0 US Gals (19L) Water	
	PCF	(kg/m <sup>3</sup> )
650	39	(625)
683	41	(657)
717	43	(689)
750	45	(721)
783	47	(753)
817	49	(785)
850	51	817
883	53	849

Cup Size = 1 liter

### **CALCULATING NOZZLE DENSITIES:**

(Estimating Yield/Bag from Nozzle Wet Cup Weights)

1. Weigh an empty 1 liter cup and tare the scale to account for the cup weight.
2. Spray the material directly into the 1 liter 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 5.0 US Gals (19L) Water	
	PCF	(kg/m <sup>3</sup> )
964	35	(561)
1019	37	(593)
1075	39	(625)
1130	41	(657)
1185	43	(689)
1240	45	(721)

If you are having difficulty achieving these nozzle cup weights, please contact the Isolotek International Technical Service Department for assistance.

**NOTE:** Only the listed equipment, nozzles and procedures found in the CAFCO SOUND-SHIELD 40 / ISOLATEK SOUND-SHIELD 40 Application and Installation Manual are approved for applying CAFCO SOUND-SHIELD 40 / ISOLATEK SOUND-SHIELD 40. Deviations from any of these recommendations will result in product not meeting claims as published in Isolotek's literature. For complete details, refer to the CAFCO SOUND-SHIELD 40 / ISOLATEK SOUND-SHIELD 40 Application and Installation Manual. **This guide is not a substitute for the CAFCO SOUND-SHIELD 40 / ISOLATEK SOUND-SHIELD 40 Application and Installation Manual.**

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\* Nozzle weights are based on a cup with a volume of 1036cc.

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