

Foster[®]

An H.B. Fuller Company

PRODUCT DATA
86-60

SPRAY INSULATION BINDER

COLOR

White (wet)
Clear (dry)

APPLICATION CONSISTENCY

Spray

WEIGHT PER GALLON

8.8 lbs. (1.05 Kg/Liter)

AVERAGE NON-VOLATILE

32.6% by weight

DRY TIME

The spray-applied mineral wool should be allowed to dry for 6 days before overcoated

SERVICE TEMPERATURE LIMITS

Minus 40F to 190F

SAFETY

Wet flammability (ASTM D-3243)
No flash point to boiling

LIMITATIONS

Do not store or apply at temperatures below 40F.
Protect from freezing.

CLEAN-UP

Wash up equipment with water before binder dries. Dry binder may be removed with hot soapy water.

MATERIAL PREPARATION

Mix 1 volume binder with 6-8 volumes of water and stir until uniform. Requires mild agitation after prolonged setting to regain uniformity.

Foster Spray Insulation Binder is used to bind spray-applied mineral wool and other fibrous insulation. It has good adhesion to a variety of substrates (asbestos board, concrete, wood, and primed metal). This product is inhibited to minimize flash rusting on bare steel.

USAGE RATE (Per 100 lbs. Wool)

Diluted Binder Required

Dilution	Mineral Wool	Fiberglass Wool
<u>Enclosed Walls:</u> Use 1:8 binder: water ratio by volume max.	5-7 gals.	6-8 gals.
<u>Open Walls:</u> Use 1:7 binder: water ratio by volume max.	6-8 gals.	8-11 gals.
<u>Ceilings:</u> Use 1:6 binder: water ratio by volume max.	8-12 gals.	11-15 gals.

NOTE: Usage rate depends on the sprayed density of the wool. The higher binder demand is needed for lower densities.

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WARRANTY REFERENCE: Foster Products Corporation warrants that each of its products will meet the specifications published in the applicable Foster Data Sheet for six months from the date of purchase. Foster makes no other warranties. If a product fails to meet this warranty, Foster will at its option replace the product or refund the purchase price. No other remedies (including claims for indirect or other damages) are available. For complete information on Foster warranties and remedies, consult a current price list, customer invoice, or contact any Foster Products Division representative or distributor.

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FOR INDUSTRIAL USE ONLY

SPRAY INSULATION BINDER 86-60Product Description

Spray Insulation Binder 86-60 is a liquid adhesive for co-spraying with mineral wool or glass fibers to form seamless, efficient thermal insulation on the construction site.

Properly applied through special spray machines, spray-on fiber insulation dries to an attractive, monolithic insulation, which provides thermal resistance and acoustical control on indoor installations in industrial, commercial, and residential buildings - new or retrofit, such as metal or concrete buildings, factories, warehouses, churches, apartments, office buildings, workshops, stud wall cavities, attics, and crawl spaces.

The final physical properties of the installed spray-on insulation are dependent upon proper selection of the fiber, binder, spray machine for conditioning the fibers, and application technique. Applications can be made over properly prepared metal, wood and masonry surfaces to achieve typical R values of 3.6 - 4.0 per inch thickness.

Application

1. The surfaces to be sprayed should be carefully evaluated for suitability for a spray-on insulation system. All surfaces must be clean - free of oil, grease, dirt, moisture, loose/peeling paint, rust, and release agents, which might prevent obtaining a satisfactory bond. Bare steel should be primed with a rust inhibiting primer.
2. After preparation of the surface, small spots of the undiluted 86-60 binder should be applied to the surface at several locations, allowed to dry thoroughly, and checked for adhesion before proceeding.
3. The 86-60 should be stirred well, then diluted with clean, fresh water (per the usage rate table) and thoroughly stirred to uniformity. Use within 24 hours to avoid putrefaction.
4. Porous surfaces should be primed with a flooding coat of diluted 86-60 to satisfy the surface absorption and obtain the maximum bond.
5. After the fiber flow rate has been set on the machine for the specific application, the diluted binder flow rate must be calibrated to obtain the correct ratio of binder to fiber at the spray nozzle. Some final adjustments may be necessary before commencing spraying.
6. The spray nozzle should be held perpendicular to the surface during spraying, about 3 or 4 feet away, moving it back and forth slowly and uniformly to build to the required thickness.
7. Do not apply spray-on insulation when the ambient or surface temperature is below 40F or may fall below 40F before the insulation is completely dry. Complete drying may require 3 - 6 days depending on the thickness and the temperature and relative humidity.
8. Natural ventilation will be sufficient to dry the insulation in most climates. In other situations, the use of forced ventilation through intake and exhaust fans may be necessary to obtain sufficient air movement of 10 to 20 air changes per hour. Avoid the use of heat, as this may cause condensation to build within the insulation with loss of bond.
9. Do not apply spray-on insulation when the surface temperature exceeds 150F at time of application or before completely dry.
10. Do not use spray-on insulation outdoors or in areas subject to mechanical abuse, oil mist, or high levels of moisture unless the area has been properly design engineered for control of the moisture content.
11. At the end of each day, the diluted 86-60 binder should be flushed from the hose lines followed by clean water thru the pump, hose line and spray nozzle to prevent any dried material from forming.