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## **SPECIAL BULLETIN ON RECOMMENDED PROCEDURES FOR APPLYING NCFI POLYURETHANE SPRAY FOAM SYSTEMS AS INSULATION ON EXTERIOR ROOF SURFACES**

1. The person applying foam must be fully qualified in handling and spraying urethane foam and thoroughly experienced in the use of urethane spray equipment, and must record daily all information on NCFI Polyurethanes daily roofing spray foam checklist.
2. Primers should be used where necessary. Contact NCFI Polyurethanes for primer application on different surfaces. Time must be allowed for all solvents to dry from primer before applying foam.
3. Roofing surface to which foam will be applied must be thoroughly secured to deck as foam can pull loose felts, etc. due to contraction of foam as it cools or as it later may expand because of heat and moisture.
4. Roof vents are to be used in accordance with good roofing practice where necessary.
5. NCFI Polyurethanes recommendation for storage of chemicals must be complied with. The feed tank or chemical drum temperature must be above 80°F. Storage temperature should not exceed 95°F.
6. Chemical feed into metering pumps must be at or above that pressure recommended by spray machine manufacturer.
7. Spray foam metering pumps must be operating at recommended pressures and preheater and hoses temperatures must be at recommended levels.
8. Purge air on spray foam guns must be free of moisture. NCFI moisture detection paper can be used to check this.
9. Surface to be sprayed with foam must be free of moisture. NCFI MDP is used to check this.
10. Air temperatures and substrate temperature should be above minimum set for version of spray foam system used. Wind speed must be below 15 mph.
  - 50°F minimum for FAST version
  - 65°F minimum for REGULAR version
  - 80°F minimum for SLOW version
11. Relative humidity at time of application must be below limit set for given temperature per NCFI temperatures and humidity chart. Dry bulb and wet bulb readings should be taken at start and finish and every two hours during spraying.
12. The full specific thickness of foam is to be sprayed during the same day. For any foam thickness added on later must be wire brushed and checked for moisture with MDP strips prior to application of foam.
13. The minimum application thickness of each foam layer is to be ½". A ¾" to 1" layer is the most desirable for good foam properties.
14. A full thickness foam sample is to be cut from the roof where foam was sprayed at start of each day's application and at the end of each day's application. Approximately half of this sample is to be filed with NCFI roofing spray foam checklist.
15. The finished sprayed foam is to be protected from UV aging in accordance with NCFI's EnduraTech Premier Roofing System specifications or an elastomeric coating manufacturer's recommendation.