



The new generation of **Insulation**

E:zero E2000 Application Guide

General:

These instructions contain critical information for the successful application of E:2000 closed cell rigid foam. When these recommendations are followed E:2000 foam will provide the proper yield and insulating value typical with this class of spray polyurethane foam insulation.

Equipment Recommendations:

E:2000 spray foam is designed for use with a 1:1 by volume proportioning unit equipped with heaters to maintain recommended material temperatures. An #01 chamber is recommended for more control. Larger chamber sizes can be used provided the pressure of 900psi is maintained during application. To get optimum yield and cell structure pressure must remain above 900psi and temperature at the gun must not go below 110°F. Higher temperatures will facilitate installation in cooler conditions. Iso and Poly components must be a minimum of 65°F.

Safety:

Spray in well ventilated areas. Positive pressure respirators are required for use with isocyanate containing materials. Workers with the following medical conditions should not work with polyurethane sprayfoam: Chronic respiratory diseases, Asthma, History or presence of allergic disease or skin allergies.

Machine Pressure &

Temperature Recommendations

A Preheater

B Preheater

Hose Temperature

Iso & Poly Drum Temperatures

Spray Technique:

Optimal application thickness is 1/2" - 2". Do not spray thicker than 2.5" per pass as it will result in excessive exotherm and scorching. To ensure good adhesion surfaces must be free of dust and dirt. Spray directly onto the surface using a sweeping movement back and forth. It is advisable to test a small area first to make sure the equipment and product are working correctly.

Caution:

Exposed spray foam should be avoided as the UV rays from the sun will break down the surface of the product. Where possible apply a UV stable product such as Polyurea. This will not only apply a UV barrier but will also apply a water tight coating to protect the product. The Polyurea will also give the sprayfoam additional surface strength which can be helpful for works on flat roofs etc. Alternatively a latex type paint or rubber paint can also be used once they are UV stable

Thermal Barriers:

Building codes require that foam plastic insulation, such as spray polyurethane foam (SPF), be covered with a thermal barrier to slow their involvement in fire situations. CPI Foam Ltd recommend that a suitable Intumescent coating or equivalent be used to reduce the risk of ignition from external sources.

Temperature Recommendations	Temperature °F	Pressure (psi)
A Preheater	110 - 140 °F	900 - 1500
B Preheater	110 - 140 °F	900 - 1500
Hose Temperature	110 - 140 °F	
Iso & Poly Drum Temperatures	65 - 90 °F	

Field conditions and equipment will dictate optimal temperature and pressure settings