

BASF Spray Polyurethane Foam Insulation Application for Residential Foundations



20% of energy loss in residential structures can be attributed to uninsulated foundations.

Exterior foundation insulation of both commercial and residential buildings can provide energy savings, a more uniformly conditioned space, and may also assist in providing a good base for the application of a liquid-applied waterproofing or damp-proofing material. When a spray foam and liquid-applied coating is used together, you create a seamless and fully adhered system unmatched by conventional systems.

BASF's spray polyurethane foam (SPF) is a plastic insulation product that is foamed in place during its field spray application. BASF SPF offers a higher R-value ^{1,2} than other products of the same thickness. By virtue of its application technique, BASF SPF covers the foundation wall in a monolithic sheet which seals around projections and penetrations. The foam product is sprayed to form a cove to protect the footing and direct water towards drainage systems.

The BASF closed-cell SPF system is similar to the rigid polyurethane foam insulation used in household appliances such as hot water heaters, refrigerators, and freezers. The two-step application is comprised of a specially formulated SPF insulation that meets the specific site and surface requirements, then a waterproof or damp-proof coating material is applied. Due to the technical skill required, these systems must only be applied by trained contractors within BASF's approved applicator network. In areas where probability of termite infestation is very high, verify local building code requirement prior to SPF use on foundations

Because the foam is sprayed on, it provides a mechanical bond as well as a chemical bond to the foundation. Applications can be done to dry and clean surfaces that are 20° F and warmer. The cured BASF closed-cell spray foam forms a smooth surface to receive the waterproof or damp-proof coating and can eliminate the need for applying a mortar or plaster seal before installing the liquid waterproof/damp-proof coating.

