Both Thermax® Floform N990 and Powder N991 are employed in polyurethane roofing compounds.

A polyurethane (EU) roofing compound consists of two solutions. One solution contains the additives, fillers and curing agent while the other solution contains the EU prepolymer. The two solutions are mixed together at the roof site and then spread out over the roof. The solution can cure in 1 to 5 hours depending on the formulation.

The addition of Thermax® can vary from 10% to 30% by weight. Thermax® acts as an inert filler while enhancing tensile strength and tear strength. Relatively high elongation and low hardness can also be maintained.

Thermax® Powder is generally employed to ensure adequate dispersion due to the low shear force nature of the liquid mixing system. If Thermax® Floform N990 is used, a two pass mixing process is required to break up the pellets and disperse the carbon black.

A typical formulation may contain the following ingredients:

### Solution A:

- **T.D.I.**

  Viscosity: 8,000 cps

### Solution B:

- N990 or N991
- CaCO3
- MgSiO3
- Talc
- DOP (dioctyl phthalate)
- PPG (propylene glycol)

  Viscosity: 20,000 cps