TYTAN® PROFESSIONAL | JOB WELL DONE.

Is Tytan Professional Thermospray Compatible with 2-Component Foam (SPF) Systems Featuring Sucrose-Based Polyols?

In short, yes.

Sucrose-based polyols are widely used in two-component spray polyurethane foam systems (SPF). When sequenced correctly, **Tytan Professional Thermospray is compatible with these systems** for typical jobsite workflows (spot repair and post-install touchups). Thermospray is a one-component moisture-cure polyurethane foam.

When the two-component foam is fully cured, clean, and mechanically sound, Thermospray can be applied with reliable adhesion. The main risks are application onto uncured two-component foam and surface contamination.

Why Compatibility is Expected
Both systems cure to polyurethane networks dominated by urethane/urea linkages. Sucrose-initiated polyols are fully reacted in the two-component foam. Thermospray's isocyanate-terminated prepolymer reacts with ambient moisture; once cured, it behaves as a rigid PU foam compatible with cured two-component foam.

Factors to Consider
Residual catalyst on two-component foam can inhibit the curability of Thermospray. Allow the two-component foam to fully cure per manufacturer instructions (often 24 hours depending on temperature). This also allows the exotherm to pass, thus preventing solvent/propellent under-cure or pinholing.

Always check the manufacturer Technical Documents before starting your job with Tytan Professional Thermospray!