



Performance of Metal Roofing Sealants Based on Polymer Technology

Introduction

With increased market demands for sustainable, energy efficient and longer lasting roofing materials, metal roofing contractors face challenges in providing customers with products that meet or exceed expectations. One such challenge is product selection for the long term weather sealing of metal roofs. Metal roof sealants must prevent water penetration by contracting and expanding with widely varied weather conditions, maintain strong adhesion to multiple surfaces, remain weather resistant for the duration of the metal roof system, and ideally also be color matched and easy to apply. This practical use paper will review the actual tested performance of popular metal sealants and the various technologies that they use for these demanding metal roof and panel sealing applications.

Actual competitive product information and test results presented will include:

- High level overview of popular construction sealant chemistries including polyurethanes, silane-modified polyethers, alcohol and oxime neutral cure silicones
- Test Result Comparisons of:
 - Substrate Adhesion Performance
 - Tack free and cure time across chemistries
 - Tensile strength and elongation performance across chemistries
 - Weatherability (UV/Water absorption) performance across chemistries

Presenter Bio: Barry Goldslager, Ph.D., Director R&D, Novagard Solutions Inc., Cleveland, Ohio

Materials scientist with thirty years of experience with a variety of silicone and other product development technologies for automotive, construction, and architectural markets. Barry has held key roles at several high profile companies including Procter and Gamble, Three Bond International, Haartz Corp., Red Spot, Inc., and most recently, at Omnova Solutions. He has developed stain resistant coatings, water base latexes and solvent borne coatings for direct adhesion coatings to low energy substrates such as PE, PP, TPO. Barry holds a B.S. in Chemistry from The Ohio State University and a Ph.D. in Materials Science from the University of Cincinnati.

Please stop by the Novagard booth (#1811) to meet our team and also stop by the Learning Zone booth (#1849) to attend one of Barry's two scheduled presentations!

- Wednesday 10/18 at 4PM and Thursday 10/19 at 2PM at The Deck theater