

STP1583  
Durability of Construction Sealants and Adhesives: 5th Volume

---

Overview

IGU Seal and Flexible Spacer Displacement Failures, Field and Laboratory Study  
Todd E. Watson, Michael E. Kenney, and Russell M. Kenney

---

Durability of Sealants: A Question of Formulation and not of the Polymer Base  
Ralf Heinzmann

---

Correlation of ASTM C1135 to Structural Testing for Curtain-Wall Applications  
Kelly Allore, Lawrence Carbary, and Kelly Broker

---

Reliability Assessment of Structural Sealant Durability  
Sang Kook Lee, Miyauchi Hirouki, and Jin Young Jeong

---

Application Possibility of Four-Sided Structural Sealant Glazing Systems in Japan  
Hisashi Ishii

---

Investigation of Performance Factors for Silicone Sealant Installed in 1958 as a  
Weatherproofing Material into a Building in Climate Zone 6  
Jon Kimberlain, Brett Laureys, and Nathan Harres

---

Proposal of Weatherability Evaluation Method of Construction Sealants for  
Waterproofing by Measurement of Depth of Damage  
Akihiko Ito, Yoshiaki Takemoto, and Kyoji Tanaka

---

Progress in the Development of a Method to Predict Sealant Modulus  
Change Due to Outdoor Weathering  
C. C. White, K. T. Tan, D. L. Hunston, A. Pintar, and J. Filliben

---

30 Year Outdoor Weathering Study of Construction Sealants  
Errol D. Bull and Gary M. Lucas

---

Evaluation of Building Facade Component Staining by the Outdoor  
Exposure and the Indoor Accelerated Staining Tests of Sealed Joint  
Hiroyuki Miyauchi, Masanori Kai, Katsuhiro Ando, Young-Joo Kim,  
and Akira Kusumi

---

Anti-Fungal Durability Evaluation of Sanitary Sealant  
Jinyoung Jung, Yeonwon Seo, and Sangkook Lee

---

Investigation of the Impact of Increasing Design Loads of a Conventional  
Structural Silicone Joint Using Finite Element Analysis and Hyperelastic  
Material Properties  
Jon Kimberlain and John A. Knowles

---

Exploration and Evaluation of the Performance and Durability of SSG  
Systems by Dynamic–Mechanical System Testing  
Christoph Recknagel and R. Kaatz

---

Adhesive Method for Rapidly Bonded Wood Panel Joints of Prefab House Construction Joints

G. Wisner, A. Zillessen, M. Brodel, E. Stammen, F. Fischer, and K. Dilger

---

A Comparative Evaluation of the Behavior of Structural Silicone vs. Acrylic Foam Tape Subjected to High Strain Rates

Errol Bull, Jorge Cholaky, and Sarah J. H. Kuhlman

---

Case Study: The Critical Role of Sealants in the Repair of a Fluid-Applied Roofing Membrane

Kyle D. Magnuson, W. Joseph Macicak, Otto C. Guedelhofer III, and David M. VanDommelen

---

The Use of Structural Adhesives for Steel–Glass Facade Panels With Multi-Axial Stress–Strain Behavior—Experimental and Numerical Investigations

C. Richter, B. Abeln, A. Geßler, and M. Feldmann

---

Advanced Evaluation of Structural Sealant Glazing Systems by a New System Test Approach

Rico Kaatz and Christoph Recknagel

---

Considerations for Prolonging the Working Life of Sealed Exterior Building Joints

Andreas T. Wolf

---

Author Index

Subject Index