LEED BD+C: Core and Shell | v2 - LEED 2.0

# Low-emitting materials - adhesives and sealants

EQc4.1 | Possible 1 point

Glossary

## Intent

Reduce the quantity of indoor air contaminants that are odorous, irritating and/or harmful to the comfort and well-being of installers and occupants.

## Requirements

1 point for achievement of 2 (4.1, 4.2, 4.3 or 4.4)
2 points for achievement of 3 (4.1, 4.2, 4.3 or 4.4)
3 points for achievement of 4 (4.1, 4.2, 4.3 or 4.4)

All adhesives and sealants used on the interior of the building (defined as inside of the weatherproofing system and applied on-site) shall comply with the requirements of the following reference standards:

- Adhesives, sealants and sealant primers: South Coast Air Quality Management District (SCAQMD) Rule #1168. VOC limits are listed in the table below and correspond to an effective date of July 1, 2005 and rule amendment date of January 7, 2005.

| Architectural Applications | VOC Limit [g/L less water] | Specialty Applications | VOC Limit [g/L less water] |
|---|---|---|---|
| Indoor Carpet Adhesives | 50 | PVC Welding | 510 |
| Carpet Pad Adhesives | 50 | CPVC Welding | 490 |
| Wood Flooring Adhesives | 100 | ABS Welding | 325 |
| Rubber Floor Adhesives | 60 | Plastic Cement Welding | 250 |
| Subfloor Adhesives | 50 | Adhesive Primer for Plastic | 550 |
| Ceramic Tile Adhesives | 65 | Contact Adhesive | 80 |
| VCT & Asphalt Adhesives | 50 | Special Purpose Contact Adhesive | 250 |
| Drywall & Panel Adhesives | 50 | Structural Wood Member Adhesive | 140 |
| Cove Base Adhesives | 50 | Sheet Applied Rubber Lining Operations | 850 |
| Multipurpose Construction Adhesives | 70 | Top & Trim Adhesive | 250 |
| Structural Glazing Adhesives | 100 | | |
| **Substrate Specific Applications** | **VOC Limit [g/L less water]** | **Sealants** | **VOC Limit [g/L less water]** |
| Metal to Metal | 30 | Architectural | 250 |
| Plastic Foams | 50 | Nonmembrane Roof | 300 |
| Porous Material (except wood) | 50 | Roadway | 250 |
| Wood | 30 | Single-Ply Roof Membrane | 450 |
| Fiberglass | 80 | Other | 420 |
| **Sealant Primers** | **VOC Limit [g/L less water]** | | |
| Architectural Non Porous | 250 | | |
| Architectural Porous | 775 | | |
| Other | 750 | | |

- Aerosol adhesives: Green Seal Standard for Commercial Adhesives GS-36 requirements in effect on October 19, 2000.

| Aerosol Adhesives: | VOC Weight [g/L minus water] |
|---|---|
| General purpose mist spray | 65% VOCs by weight |
| General purpose web spray | 55% VOCs by weight |
| Special purpose aerosol adhesives (all types) | 70% VOCs by weight |