Fast & effective construction adhesives

What are VORAMER™ Adhesives for Manufactured Housing?

VORAMER™ Adhesives Manufactured Housing are polyurethane foam systems that have been independently tested and meet various requirements for gysum-to-wood fastening applications within the construction industry. Dow offers both two-component and one-component polyurethane adhesives.

What do they do?

VORAMER™ Adhesives Manufactured Housing allow for fast, easy and secure bonds between drywall, wood and other substrates. These adhesives enhance the structural integrity of ceiling, wall and sub-floor assemblies, replacing or complementing screws or other mechanical fasteners for a more efficient installation process.

How does the adhesive work?

The two-component adhesives are designed to combine the “A” (MDI) component and “B” (polyol) component through high-pressure proportioning equipment. It is mixed and applied using a two-component, adjustable or fixed stream mix-head. The dispensed, targeted stream is directed at the conjunction of substrates by the operator. The material cures through the combination of both A and B components.

The one-component adhesive is also designed to be used with high-pressure equipment, however does not require proportioning equipment as it cures from air moisture.

Why are they better than other options?

What matters the most on a worksite? Ease of use. Efficiency. Safety. VORAMER™ Adhesives Manufactured Housing offer all of these and more.

- VORAMER™ MB 3099 is a high expanding foam that can enable higher coverage for more efficient material use with proper application.
- All options can be used to complement typical construction fasteners, reduce the number of needed fasteners, or even eliminate the need for fasteners altogether.

See our available products on the next page
<table>
<thead>
<tr>
<th>Chemistry</th>
<th>Product name</th>
<th>Description</th>
</tr>
</thead>
</table>
| Two-component | VORAMER™ MB 3099  
VORAMER™ ME 3044 | A two-component polyurethane adhesive for adhering roof trusses with drywall ceiling board or assembling walls typical in Manufactured Housing.         |
| Two-component | VORAMER™ MB 3022  
VORAMER™ ME 3044 |                                                                                                                                            |
| One-component | VORAMER™ ME 3515 | A one-component, moisture curing polyurethane adhesive for adhering dry wall to wooden studs or any porous substrate – typically used in assembling walls and subfloors in Manufactured Housing. |

<table>
<thead>
<tr>
<th>Chemistry</th>
<th>Product name</th>
<th>Viscosity (Cps)</th>
<th>Working Time</th>
<th>Rise (sec)</th>
<th>Tack-Free (sec)</th>
<th>Final Cure (min)</th>
</tr>
</thead>
</table>
| Two-component | VORAMER™ MB 3099  
VORAMER™ ME 3044 | 3099: 700       
3044: 200        | —             | 15-25       | 40-50          | 5               |
| Two-component | VORAMER™ MB 3022  
VORAMER™ ME 3044 | 3022: 350       
3044: 200        | —             | 10-20       | 30-40          | 5               |
| One-component | VORAMER™ ME 3515     | 3,500           | 17-23        | —           | —               | 42-48            |

1°F using ASTM D4889
2°F and 45% humidity

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