



# 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 gypsum-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



Chemistry	Product name	Description
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.
	VORAMER™ MB 3022 VORAMER™ ME 3044	
One-component	VORAMER™ ME 3513	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.

Chemistry	Product name	Viscosity (Cps) <sup>1</sup>	Working Time <sup>2</sup> (min)	Rise (sec)	Tack-Free (sec)	Final Cure (min)
Two-component	VORAMER™ MB 3099 VORAMER™ ME 3044	3099: 700 3044: 200	—	15-25	40-50	5
	VORAMER™ MB 3022 VORAMER™ ME 3044	3022: 350 3044: 200	—	10-20	30-40	5
One-component	VORAMER™ ME 3513	3,500	17-23	—	—	42-48

<sup>1</sup>77°F using ASTM D4889  
<sup>2</sup>65°F and 45% humidity



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