

**Table 2—Application Based Setting Bed Mortar Recommendations<sup>1</sup>** **Laticrete Adhesive Mortars**

Application	Type N Mortar (ASTM C270 or ASTM C1714)	Type S Mortar (ASTM C270 or ASTM C1714) or ANSI A118.1 Mortar	ANSI A118.4 or ANSI A118.15 Mortar
<b>Interior Applications</b>			
Less than 10 ft (3 m) in height above finished floor	Recommended	Recommended	Recommended
All other interior applications	Not Recommended	Recommended	Recommended
<b>Exterior Single Family Residential Applications</b>			
Grouted <sup>2</sup>	Not Recommended	Recommended	Recommended
All other exterior single family residential applications	Not Recommended	Recommended	Recommended
<b>Exterior Commercial Applications</b>			
Less than 10 ft (3 m) in height above finished grade	Not Recommended	Recommended	Recommended
All other exterior commercial applications	Not Recommended	Not Recommended	Recommended
<b>Special Applications</b>			
Installed directly on cement board	Not Recommended	Not Recommended	Recommended
Non-vertical applications <sup>3,4</sup>	Not Recommended	Not Recommended	Recommended
<sup>1</sup> If the surface area of an AMSV unit exceeds 1 ft <sup>2</sup> (0.1 m <sup>2</sup> ) or 24 in. (610 mm) in any dimension, then install using setting bed mortar complying with ANSI A118.4 or ANSI A118.15. <sup>2</sup> Requires a minimum nominal mortar joint thickness of 1/4 in. (6.4 mm) around AMSV units. <sup>3</sup> Requires a fastening system designed by a professional engineer. <sup>4</sup> AMSV units should not be subjected to pedestrian or vehicular traffic.			

### General Mortar Considerations

When considering mortar selections, verify the mortar can provide a minimum shear bond strength of 50 lb/in.<sup>2</sup> (345 kPa) when tested in accordance with ASTM C482, is consistent with the stone manufacturer's recommendations, and is suitable for installation of adhered manufactured stone veneer. Prepackaged/preblended mortars should be mixed and installed per mortar manufacturer's instructions

In some cases additives or admixtures are added to mortars to modify one or more plastic or hardened properties of the mortar; such as workability enhancers, water repellents, or bond enhancers. When a modifier is introduced to a mortar comply with ASTM C270 or ASTM C1714, the additional requirements of ASTM C1384 must also be met. Modifiers used in the production of mortar complying with ANSI A118.4 or ANSI A118.15 are specifically designed to increase the mortar's bond strength.

As reflected in Table 2, modified mortars containing bond enhancers and mortars with higher cement contents are better suited for challenging installations or where increased bond strength is desired. Examples of these installations include exterior applications or when directly bonding to substrates such as cement board. As not all mortar admixtures are compatible or

interchangeable, consult with mortar or additive manufacturers to ensure compatibility of mortar and admixture components.

### Surface Preparation

Verify that the surface to which the AMSV is to be installed is structurally sound, free of any coatings or materials that would inhibit bonding, and capable of supporting the intended AMSV system. The majority of the discussion and details in this guide focuses on the installation of AMSV systems on backup systems consisting of wood or steel framing with rigid sheathing and concrete or concrete masonry construction; however, virtually any backup system can be used when properly designed and prepared to receive AMSV systems.

Masonry walls, poured-in-place concrete walls, and concrete tilt up panels must be free of dirt, waterproofing, paint, form oil, or any other substance that could inhibit the mortar bond and must readily accept/absorb water in order to achieve good bond. The International Concrete Repair Institute, (ICRI), provides guidance for concrete surface preparation and assessment. The surfaces intended to receive AMSV units must have a rough texture to ensure good mortar bond. Refer to ICRI Technical Guideline 310.2 for additional information on concrete surface preparation, including information on