



Cementitious and Resin Flooring Systems

Applying *Mapefloor™ I 302 SL* on wall board and CMU walls

The purpose of this Technical Bulletin is to offer some insight on methods of application on wall surfaces. *Mapefloor I 302 SL* epoxy resin is appropriate for application over various vertical surfaces, with an appropriate primer. Wall board (including gypsum board and Cement Backer Units (CBU)) is one of the most common substrates that are encountered, along with Concrete Masonry Units (CMU).

Wall board application method

Wall board surfaces must be finished to a level 1, 2, or 3 drywall finishes per ASTM C840, with an appropriate setting compound to ensure an aesthetically pleasing finish on the wall.

- **Level 1:** This level means that the drywall joint tape will be embedded in the joint compound, but nothing further has been done.
- **Level 2:** All joints and interior angles shall have tape embedded in the joint compound and must be wiped using a joint knife or trowel, leaving a thin coating of joint compound over all joints and interior angles. Joint compound applied over the body of the tape at the time of tape embedment shall be considered a separate coat of joint compound and shall satisfy the conditions of the level.
- **Level 3:** All joints and interior angles shall have tape embedded in the joint compound and shall be immediately wiped using a joint knife or trowel, leaving a thin coating of joint compound over all joints and interior angles. One separate coat of joint compound shall be applied over all joints and interior angles. Fastener heads and accessories shall be covered with two separate coats of joint compound. The surface shall be smooth and free of tool marks and ridges.

It is important to note that we do not apply our coatings on top of a wall board with a finish greater than level 3. This is because levels 4 and 5 will have additional coats of compounds, and in some cases these finishes will contain a complete extra coat of the compound. The problem with this is due to the limited bonding capability of the compound, it may not be strong enough to achieve an adequate bond strength to our coatings. Also, drywall compound has lower tensile strength and thus failure of wall application on a wallboard with a higher level of finish may result in the failure taking place within the drywall compound itself.

It is always recommended that a primer be applied on the wallboard prior to the installation of a coating of *Mapefloor I 302 SL*, as wallboards are absorbent and the primer would be used as a sacrificial layer. Either *Primer SN™* or *Mapefloor I 900* primer are good for this purpose.

CMU application method

When it comes to the application of our coatings on concrete or CMU, surface preparation is one of the most important aspects. The surface should be prepped by sand blasting or another acceptable method to achieve a Concrete Surface Profile (CSP) of #2 to #4 per International Concrete Repair Institute (ICRI) classification, and therefore ensure a proper bond. When dealing with CMU it is advisable to apply *Mapefloor Patch* as a block filler for the joints. The application of *Primer SN* or *Mapefloor I 900* primer on concrete surfaces is also required as it will act as a good bonding agent to the substrate as well as act as the sacrificial coating prior to the final wall coating. As with any primer, check the surface preparation requirements on the respective Technical Data Sheets, and be sure to follow all instructions therein to ensure a successful application

