



## Product Data

<b>MARVEL BOND™</b>	CONCRETE AND PLASTER ADHESIVE
<b>DESCRIPTION</b>	MARVEL BOND is a high-solids latex emulsion of specially modified acetate resin developed for portland cement reinforcement and as a bonding aid for applying plaster and new concrete patches on concrete surfaces. MARVEL BOND may be used on green concrete and will bond plaster directly to masonry foundations, concrete, wood, cinder blocks, brick and asphalt. MARVEL BOND does not contain toxic solvents. It is safe to use and is VOC-compliant.
<b>COVERAGE</b>	300 ft <sup>2</sup> /gallon (7.35m <sup>2</sup> /liter) or 600 ft <sup>2</sup> /gallon (14.72 m <sup>2</sup> /liter) in a 1:1 dilution.
<b>FEATURES/BENEFITS</b>	<ul style="list-style-type: none"> <li>•Greatly improves abrasion, impact and corrosion resistance</li> <li>•Freeze/thaw resistance of MARVEL BOND -modified concrete mixes is enhanced</li> <li>•Reduces premature drying; greater water retention allows better hydration and higher concrete strengths</li> <li>•Improves adhesion: mortars and concretes containing this admixture exhibit greatly improved adhesion to prepared substrates</li> <li>•Reduces cracking and shrinkage due to reduction in bond stress and modules of elasticity</li> </ul>
<b>APPLICATION</b>	<p><b>SURFACE PREPARATION:</b> Specific mixing proportions for these various MARVEL BOND mixes are listed on the container. All cautions, mixing and application information and directions furnished on container labels should be read and followed. All surfaces to which MARVEL BOND bonding grout and / or topping is to be applied must be structurally sound, clean and free of grease, oil, dust, dirt, curing and release compounds and other foreign contaminants. All loose and unsound concrete must be removed. After cleaning, the concrete should be etched with a 1:1 muriatic acid solution and then thoroughly rinsed with water. Pre-soak all surfaces with water prior to applying the bonding grout. Remove all puddles and free water.</p> <p><b>MIXING:</b> For normal mixing, dry blend the portland cement and sand. Mix the MARVEL BOND and water together, add the cement-sand mix and then mechanically blend the complete mix thoroughly. The quantity of water should be determined by a trial mix where only 50% of the water is first added to the MARVEL BOND before adding to the sand-cement mix. After thorough preliminary mixing, add increments of additional water until the desired consistency is obtained. MARVEL BOND as a Concrete Admixture: For concrete that has a high degree of resiliency and higher tensile strength, dilute the MARVEL BOND with a portion of the normal water requirement before adding to the blended portland cement aggregate mixture. Use 1 gallon (3.79 liters) minimum and 2 gallons (7.75 liters) maximum of MARVEL BOND for every 94 pound (42.64 kg) bag of cement. For ready mix, use 1 quart (.94 liters) per 90 pound (40.82 kg) bag. The following is a typical mix design:</p>

<p><b>APPLICATION CONT.</b></p>	<p>Portland cement - 94lbs. (42.64 kg) (1 bag) Type II or Type III.  Sand - 2 1/2 cubic feet (0.7m<sup>3</sup>) (18.75 gallons) (70.98 liters).  Gravel - 2 cubic feet (.06m<sup>3</sup>).  MARVEL BOND- 3 gallons (11.36 liters) (Dilute with portion of water requirement).  Water - as required.</p> <p><b>MARVEL BOND as a Plaster Adhesive and Admixture:</b> The old masonry surfaces should be cleaned of all grease, oil and foreign matter with detergent or solvents. Detergents must be flushed away with clean water. A completely dried coating of adhesive must be recoated with MARVEL BOND before applying plaster.</p> <p>To reinforce and improve the physical properties of the plaster mix, 12 gallons (45.43 liters) of diluted MARVEL BOND emulsion [1/2 to 1 gallon (1.89 - 3.79 liters) of MARVEL BOND diluted to 12 gallons (45.43 liters) with water]. Apply evenly with roller, brush or spray. Allow 45 minutes or more drying time before applying water thinnable paint. If oil paint is used, allow the MARVEL BOND to dry thoroughly, preferable several hours.</p> <p><b>CLEANUP:</b> Use soap and water to clean tools and equipment.</p>
<p><b>PRECAUTIONS</b></p>	<p>MARVEL BOND freezes at temperatures below 30°F (-1°C) and should not be stored in cold areas. Do not store at temperatures above 90°F (32°C) for prolonged periods.</p>

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