

# A-Z Hi Bond

## SBR Copolymer



**DESCRIPTION** • *A-Z Hi Bond* is a modified styrene butadiene rubber copolymer based emulsion used as a bonding agent or as an admixture.

**USES** • *A-Z Hi Bond* may be used as a bonding agent for enhancing adhesion between new and old concrete and plaster surfaces, or as an admixture to improve the strength and bonding properties of concrete, plasters, and repair and patching mortars.

### ADVANTAGES •

- ✓ Economical and easy to use.
- ✓ Increases the compressive, tensile and bonding strength of concrete and mortar.
- ✓ Reduces water permeability.
- ✓ Improves chemical resistance.
- ✓ Can be used with virtually all types of cement.
- ✓ Suitable for interior and exterior applications.
- ✓ May be diluted with water or mixed with cement.

**COVERAGE** • Coverage will depend on surface roughness, porosity, application technique, and job conditions. As an admixture, add 2.5-4 gallons for every 50 kg of cement, depending on expected use conditions and exposure to chemicals.

**LIMITATIONS** • Do not mix or apply if ambient temperature is expected to drop below 5°C during installation or in the proceeding 24 hours, or if rain is expected in the proceeding 24 hour period after application. Do not allow to freeze. Do not apply over frozen surfaces, rust, water-soluble paints or peeling paint. Do not apply where hydrostatic pressure might be present.

### PHYSICAL PROPERTIES •

Appearance	White viscous liquid
Toxicity	None
Tensile Bond Strength (ASTM C 1583)	3.2 MPa (Failure in concrete)
Shear Bond Strength (ASTM C 882)	7.7 MPa

**SURFACE PREPARATION** • All surfaces must be free from oil, grease, sealers, dust, paint, form release and curing compounds. Glossy and painted surfaces must be sanded, stripped, and cleaned of all contaminants. Concrete surfaces must be free of efflorescence and accepting of water penetration in

order to form a good bond. Test by sprinkling water on the substrate; water beading indicates the presence of contaminants which could cause loss of adhesion. It is recommended to roughen smooth concrete surfaces prior to installation.

**APPLICATION** • As a bonding agent: Soak old surface with water, insuring surface is saturated but free of standing water. Prepare a slurry primer consisting of 1 part *A-Z Hi Bond* to 1 part water and 3 parts Portland cement (by volume), then scrub into surface. Alternatively, as a standalone primer/bonding agent, dilute 1:1 with water and apply directly to the surface with a roller, brush, or sprayer to form a continuous thin film. DO NOT ALLOW TO DRY; apply new cement screed, plaster, or repair mortar while coating is still tacky. If the existing substrate is highly porous, first seal with *A-Z Prime Bond* diluted with 2 parts of water.

As an Admixture: For heavy duty applications, add 26-40 gallons of *A-Z Hi Bond* for every cubic meter of concrete mix. *A-Z Hi Bond* may also be used for heavy renderings by adding 1 part Portland cement to 1 part washed sand and 1 part of *A-Z Hi Bond* diluted with water in a 1:3 ratio.

**CLEANING** • Promptly clean all tools and equipment with clean water.

**STORAGE** • Store in dry conditions away from direct sunlight and extreme temperatures. When stored at specified conditions in original unopened packaging, shelf life is 12 months from date of purchase.

**SAFETY PRECAUTIONS** • **KEEP OUT OF REACH OF CHILDREN.** DO NOT TAKE INTERNALLY. Use neoprene gloves and goggles when handling. FIRST AID: Eyes – Do not rub eyes, immediately flush with fresh water and seek medical attention. Skin – Wash with soap and water. Ingestion – do not induce vomiting; seek immediate medical attention.

**PACKAGING** • 20 liter pail.