

PRODUCT NAME

# Adi-Con™ BA AC Super Polymer Modifier for Mortar & Concrete



MANUFACTURER

Gemite® Products Inc.

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FEATURES

- Reduces permeability
- Reduces the water content in the mix
- Improves bond strength to hardened concrete
- Improves durability
- Reduces drying shrinkage cracking
- Improves abrasion resistance
- Improves water tightness
- Increases chemical resistance
- Improves resistance to deicing salts
- Reduces carbon dioxide transfer
- Non-toxic

PRODUCT DESCRIPTION

Basic Use

*Adi-Con BA AC Super* modifier improves waterproofing, increases chemical resistance, allows thin section applications and slows down the carbonation of concrete and mortar. *Adi-Con BA AC Super* modified mortar and concrete are suitable for traffic toppings, patching and as leveling courses. The crack resistance and bond strength of thin set mortars, stucco and terrazzo are considerably improved with the addition of *Adi-Con BA AC Super*. It provides very high strength when used as bonding slurry with sand and cement. Values over 3 MPa in direct tensile pull-off test can be achieved

Composition and Materials

*Adi-Con BA AC Super* is an acrylic copolymer latex based modifier.

Limitations

Do not apply *Adi-Con BA AC Super* modified mortar or concrete when the temperature is expected to be below 4°C (40°F) within 48 hours, or when rain is imminent. Follow Hot Weather concreting precautions at temperatures exceeding 25°C (77°F) or under sunny and windy conditions. Protect from freezing. Do not overfinish the *Adi-Con BA AC Super* mortar and concrete and do not use steel trowel for finishing.

Health and Safety

*Adi-Con BA AC Super* is non-toxic and non-flammable. Avoid contact with eyes and prolonged contact with skin. Harmful if digested. Keep product out of reach of children. FOR INDUSTRIAL USE ONLY. Consult MSDS for additional information.

Color

Milky white.

Packaging

*Adi-Con BA AC Super* is supplied in 20 L (5.3 USG) pails and 209 L (55 USG) drums.

Yield

All figures are based on Mix Designs (see next page):

*Adi-Con BA AC Super Bonding Slurry*, based on 11.5 L (3.04 USG) mix, yields 53.3 L (2.01 ft<sup>3</sup>).

*Adi-Con BA AC Super Thin Repair Mortar* (max. 6 mm/ ¼ in), based on 7.5 L (1.98 USG) mix, yields 65.4 L (2.5 ft<sup>3</sup>).

*Adi-Con BA AC Super Thick Repair Mortar* (max. 24 mm/ 1 in), based on 7.5 L (1.98 USG) mix, yields 83.5 L (3.15 ft<sup>3</sup>).

Storage and Transportation

*Adi-Con BA AC Super* in unopened containers and when stored on pallets in a dry area, free from direct sunlight has a shelf-life of 12 months. Must not freeze. Packaged 36 pails or 4 drums per pallet.

TECHNICAL DATA

Solids	55 %
Residual Monomer	0.1 % max
Weight	1.03 kg/L (8.3 lbs/USG)
pH	9.5
Standard for Latex Bonding Agent (ASTM C1059)	meets fully
Carbonation Resistance	Varies with mortar mix design: polymer content, water cement ratio and sand/cement. At p/c=0.1 and w/c=0.33 and sand/cement =2, 1 cm thick layer of the mortar is an equivalent of 1.1 m of concrete. Contact Gemite for more information
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Gemite Products Inc.  
March 2002

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03 05 00 Bonding Agents  
03 01 00 Concrete Maintenance

## INSTALLATION

Current Guide Specification and Application Instructions contain additional information specific to each application and must be followed. Contact Gemite's Technical Service for information specific to your application.

### Surface Preparation

Remove all loose, delaminated and oil contaminated concrete. Clean the surface by shotblasting, scarifying or a high pressure waterblasting (min. 24 MPa or 3,500 psi) to remove laitance, form release agents, dust, dirt and efflorescence. Acid cleaning is not recommended.

### Reinforcing Steel

Remove all loose rust from any exposed reinforcing steel and apply two coats of *Fibre-Prime* rustproofing.

### Crack Treatment

Any existing cracks must be treated separately.

### Mix Design

<i>Bonding Slurry</i>	Metric	US
<i>Adi-Con BA AC Super</i>	11.5 L	3.04 USG
Portland Cement (Type 10/ 1)	40 kg	94 lbs
Mortar/Concrete Sand	40 kg	94 lbs
Water	14 L	4 USG

  

<i>Thin Repair Mortar (max.6 mm/ ¼ in)</i>	Metric	US
<i>Adi-Con BA AC Super</i>	7.5 L	1.98 USG
Portland Cement (Type 10/ 1)	40 kg	94 lbs
Mortar/Concrete Sand	80 kg	188 lbs
Water	15 L	4.2 USG

  

<i>Thick Repair Mortar (max.24 mm/1 in)</i>	Metric	US
<i>Adi-Con BA AC Super</i>	7.5 L	1.98 USG
Portland Cement (Type 10/ 1)	40 kg	94 lbs
Mortar/Concrete Sand	120 kg	283 lbs
Water	18 L	5.1 USG

### Mixing

*Adi-Con BA AC Super* modified mortar is easily mixed using a mortar mixer, or heavy duty drill (400-600 rpm) with a mixing paddle. Mix sand, cement and most of the water specified, before

adding *Adi-Con BA AC Super*. Do not use air-entraining admixtures. Do not over mix to prevent high air content. Adjust the water to obtain the desirable consistency. Convey the mixed material to point of placement in clean, uncontaminated containers.

### Application

Saturate the surface with water for a minimum of six (6) hours. Remove all standing water to achieve a saturated surface dry condition. Apply a thin coat of the *Bonding Slurry* and place the *Repair Mortar* into the wet slurry. Keep wet edge. Do not over trowel or over finish. Provide a broom finish.

### Curing

Moist cure for 24 hours and air dry cure for additional 3 days. Protect against rapid evaporation, or plastic shrinkage cracking could occur.

### Clean Up

All tools must be cleaned with water immediately after use. Cured material can only be removed mechanically.

### AVAILABILITY AND COST

*Adi-Con BA AC Super* is available worldwide. Contact Gemite Products Inc. for the name of the nearest Representative/ Distributor and current pricing information.

### MAINTENANCE

None required.

### WARRANTY

A limited twelve (12) month Material Replacement Warranty is available. For details, contact Gemite's head office.

### TECHNICAL SERVICE

For technical advice on suitability of *Adi-Con BA AC Super* for specific application, specification assistance and application advice, contact Technical Service: USA (888) 443-6483 or Canada (905) 672-2020.

### Short Specification

The [mortar] [concrete] additive will be *Adi-Con BA AC Super*, acrylic latex based additive, as manufactured by Gemite Products Inc., [USA 888-443-6483 [Canada 905-672-2020]. It will satisfy the following requirements:

Solids	55 %
Residual Monomer	0.1 % max
Weight	1.03 kg/L (8.3 lbs/USG)
pH	9.5
Standard for Latex Bonding Agent (ASTM C1059)	meets fully