

ASA 603 Concrete Enhancing Polymer

MULTIPURPOSE

- ▶ Add to any batch of concrete to increase physical and chemical properties. Increases compressive and tensile strength, decreases permeability and greatly improves chemical resistance. Prohibits efflorescence.
- ▶ Ideal for patching, forms a bond to existing concrete stronger than the original.
- ▶ Primer for all metal, concrete and wood surfaces before painting.
- ▶ Saturant for polyester fabric before overcoating with Acrylic roofing.
- ▶ Waterproof grout for tile and masonry work.
- ▶ Use to create a low cost concrete paint.

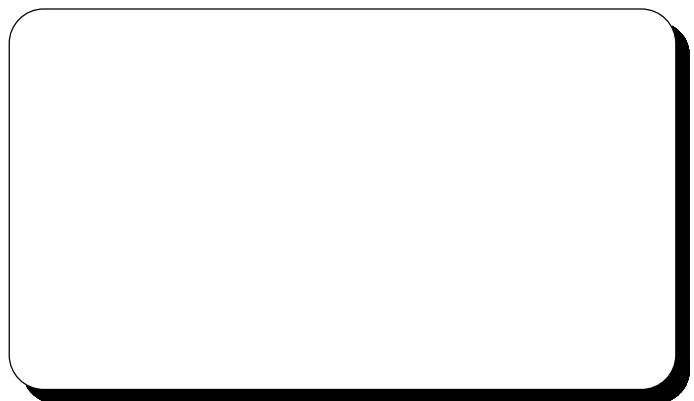
TYPICAL PATCH MATERIAL FORMULA:

3 Gal. ASA 603 CEP
2 Gal. Water
1 94 lb. Bag #1 Portland Cement
140 lb. Clean Sand
= 21 Gal. of Polymer Concrete

BASIC APPLICATION PROCEDURE

- ▶ 1. Clean using high pressure water being sure to remove all oil or grease. Dry until all excess moisture is gone.
- ▶ 2. Spray or brush apply ASA 603 CEP @200 sq. ft. per gallon. Allow prime coat to dry.
- ▶ 3. Mix patch material and trowel into eroded areas. Minimum film thickness of 1/4 inch. Can be feather edged.
- ▶ 4. Allow patch material to cure (minimum 12 hours) before overcoating with epoxy, urethane or thinset Polymer Concrete.

For additional information, specific mixing instructions, or recommendations on how to best solve your problem, please contact:



Application instructions for ASA 603 CEP

Using ASA 603 is a fairly simple matter. You merely replace a portion of your water with the polymer. The key is to blend the polymer with the water before mixing with your cement-aggregate mixture. The most successful order is:

- ▶ Calculate the volume of water for your particular mix. (We generally recommend an overall concrete mix of 1 part water + 2 parts cement + 3 parts aggregate.)
- ▶ Place water in a container and fill to the total volume needed with ASA 603. ie., If you want a 50% polymer blend then put half the total water into a bucket and add enough polymer to make the total volume of needed liquid. (Note: Always add the polymer to the water. Adding water to polymer will cause foaming and decrease your polymer concrete properties.)
- ▶ Dry mix the cement and aggregate together to blend then add 60% to 80% of the liquid and mix until all cement and aggregate appears wet and lump free.
- ▶ Add the balance of the liquid and mix briefly until completely mixed.

The minimum recommended ASA 603 CEP is 3% added to the water before water addition to the concrete mix. This translates into 1.1 gallons per yard of concrete. ie., If you are planning on putting 36 gallons of water into a yard, fill a barrel with 35 gallons of water, add 1 gallon + one pint of ASA 603 CEP to the water, now blend the water into your cement-aggregate mix.

Beyond that it's a "dial your concrete" strength question. How strong, flexible or chemical resistant do you want your concrete? Add one pint to 7 pints of water (12%) and you'll have one gallon of water perfect for addition to an 80# bag of pre-mixed concrete. At 50-50 you nearly triple the concrete strength. For making a sand-patch material 2 parts water + 3 parts polymer makes a very effective material.

Special Notes, Comments and Observations

- 1 ASA 603 CEP increases the lubricity of concrete formulas. You can thus create more "liquid" mixtures and still get better performance than regular concrete.
- 2 ASA 603 CEP accelerates the set time of concrete formulas. Be careful that you do not mix more than you can place within a 30 minute period.
- 3 ASA 603 CEP decreases the "bleed" water. Be prepared to trowel finish as soon as you have placed the concrete.
- 4 Surfaces to which you wish to bond polymer concrete should first be primed with ASA 603 CEP. Metal and wood surfaces should be primed with ASA 603 Prime. On hot surfaces be sure to mix the polymer first with at least 50% water to allow penetration of substrate before the water evaporates.
- 5 Excellent adhesion is available through overcoats. If you don't can't get sufficient material applied in the first pass then don't worry about needing to apply more.
- 6 ASA 603 CEP works and enhances all cement formulas ... #1 Portland, #1 White Portland and even alumina cements. It should not be used in applications when the projected service temperature is above 400⁰ F.
- 7 Add dry colorants to the aggregates before adding liquid ... add liquid colorants to the liquid before adding to dry materials.