



## Enviro Science Technologies

### #2 ADDITIVE (ACRYL POLYMERIC)

**Product Name:** #2 Additive

**Product-Description:** #2 Additive is based on Acryl Polymeric chemistry, designed to improve the performance of Portland cement. Provides high adhesive strength to structurally sound surfaces, such as concrete, stucco, mortars, masonry, plaster etc.

**Key Features and Advantages.**

- Ready to use, Non-toxic and vermin proof.
- Easily mix with cement sand and water.
- Can be applied on damp or dry surfaces.
- Excellent mechanical strengths and adhesion.
- Unaffected by humidity or condensation.
- Excellent thin-section toughness and adhesion.
- Outstanding resistance to UV degradation.
- Presence to most acids and alkalis.
- Will not crack or craze.
- Stays flexible.
- Can be painted and sealed over.
- Superior weather ability.
- Increase compressive strength.
- Helps green strength.

**Applications:** #2 Additive is developed for use in cementations applications to improve the performance and extend the life of all cementations products like, concrete (poured in place or pre cast), concrete bricks, blocks, stucco, mortar etc.

**Performance:** The key performance advantages of #2 Additives are it's improve wet and dry adhesion, mechanical strengths and superior weather ability. These performance and advantages make's #2 Additive an ideal product to use in exterior applications, where water resistance is critical. #2 Additive has shown excellent compatibility and performance in fast setting mortars. Cement mortars and concrete made with #2 Additive are more resistant to weathering than using modifiers based on other chemistries.

## #2 ADDITIVE (ACRYL POLYMERIC) Continued

### How To Mix:

For all applications #2 additive is mixed to the following proportion by weight or by volume.

- |                      |    | <u>Mix Ratio</u>          |
|----------------------|----|---------------------------|
| • 1 Part #2 Additive | To | 5 Parts Portland cement   |
| • 2 Part find sand   | To | Sufficient water to yield |
- Bonding grout should be mixed to a thick creamy consistency.

### Follow Steps for Proper Mixing Method

1. Dry blend cement and sand. 2. Pre mix #2 Additive with approximately one part water (this will vary according to the amount of water in the sand). Add to the cement sand blend and mix thoroughly by mechanical means. 3. Determine the amount of water required by a trial mix (for this purpose, 1/2 part water is added to the #2 additive prior to the addition to the cement-sand blend). 4. For routine batches, 80% of the total water required is mixed with #2 Additive for initial mixing. Use remaining 20% of water for final adjustment.

### When use as a bonding agent use following chart.

| <u>Use</u>                  | <u>Part #2 Additive</u> | <u>Part-Cement</u> | <u>Part- Sand</u> | <u>Part- Water</u> |
|-----------------------------|-------------------------|--------------------|-------------------|--------------------|
| Bonding grout consistency   | 1                       | 5                  | 2(B)              | To desirable       |
| Topping consistency         | 1                       | 5                  | 15(C)             | To desirable       |
| Shot Crete                  | 1                       | 5                  | 2                 | 1 Part             |
| Concrete Finishing          | 1                       | 10                 | 10                | 4 Parts            |
| Walk way & plaza way water. | 1                       |                    | 5                 | 5<br>Sufficient    |

- A. Sufficient water to yield a desirable consistency.
- B. Sand confirming to ASTM-C-144.
- C. Sand confirming to ASTM-404, size No.2

## #2 ADDITIVE (ACRYL POLYMERIC) Continued

### For Best Results:

1. Protect #2 Additive from freezing.
2. Pre wet surface before applying bonding grout, but remove all puddles.
3. Mix only small batches, pot-life with #2 Additive is 30 to 40 minutes.
4. Use mechanical means of mixing when ever possible. Avoid entrapment of air and lumps.
5. All topping should be cured with a curing compound.
6. For clean up use warm water immediately after use.

**Packaging:** 1,5, gal and 55, gal drum.

**Limited Guarantee:** EST Inc. has no control over the storage, handling or use of this product, thus the guarantee is limited to the purchase price of defective material only.