

# ASIAN LABORATORIES

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## PRODUCT INFORMATION

# PIPE AID -1

CONCRETE PUMPING AID & PUMP PRIMER

### DESCRIPTION:

PIPE AID - 1 is a dry powdered concrete pumping - aid packaged in sachets/poly packs is uniquely formulated to provide the concrete pumper with a cost effective method for improving the pumpability of hard to pump and/or harsh concrete and gout mixes. Additionally, Pipe Aid - 1 reduces line pressure. Improves flow properties and increases the rate and range of pumpability. Pipe Aid -1 does not contain calcium chloride, nitrates, nitrites or other potentially corrosive materials and is compatible with all standard concrete admixtures. In addition, Pipe Aid -1 contains no bentonite, cementitious materials, soaps or air entraining agents.

### ADVANTAGES

- (i) Increases ease and range of pumpability
- (ii) Decreases wear on equipment.
- (iii) Decreases horsepower required for pumping.
- (iv) Reduces friction and line pressure
- (v) Improves mobility and consolidation.
- (vi) Minimizes slump and air loss through pump lines.
- (vii) Reduces dewatering of concrete.
- (viii) Improves cohesiveness in lean concrete reducing bleeding & segregation.

### DIRECTIONS

#### AS A PUMPING AID

1. Determine the amount of Pipe Aid - 1 required. See Recommended Dosage Rate.
2. Each Pipe Aid – 1 poly pack is supplied in a moisture proof packing tear the poly bag & add directly to the concrete or grout mix in the ready-mix truck. The entire quantity will easily dissolve.

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3. Mix at high speed for 7 to 10 minutes to insure that the Pipe Aid - 1 is uniformly dispersed throughout the mix.
4. Additional Pipe Aid - 1 may be added if necessary.

AS A CONCRETE PUMP PRIMER :

Use one pack in (90-100 Liters) of water to prime 50 mt of 5 inch pump line. Add the pack directly into 30 Ltr. water either in a drum or in the hopper of concrete pump. Mix for 1-2 minutes and allow the mixture to set for at least 5 minutes till greasy condition is achieved add balance water to make 100 Ltr & mix to make homogenous. Pour into the priming port or hopper just prior to pumping. It is possible to mix the product directly in the hopper.

PUMP PRIMING NOTES :

Remember as with any pump priming material, the first few gallons of concrete will have a higher water content than the mix behind, which may affect certain pours, such as slabs and columns. To avoid potential problems discard the first few gallons.

The best way to primer horizontal lines is to use a rubber ball in front of the priming solution to avoid only wetting the bottom of the line.

RECOMMENDED DOSAGE RATE :

Use a dosage rate equal to (50-100 grams per cubic meter) of concrete or grout. Typically, one (115 gram) bag will treat 1 cubic mt.. This dosage of Pipe Aid - 1 is recommended to increase the pumpability of harsh mixes and concrete mixes with a potential problem from gap-graded aggregates. Concrete temperature, ambient temperature or concrete mixes containing accelerators, retarders or special admixtures such as silicafume may require dosage rates outside of the recommended range. It is recommended that testing be done to determine the suitability of Pipe Aid - 1 to your particular application. As an additive to concrete, Pipe Aid - 1 has no deleterious effect as on the structural integrity of the concrete.

COMPATIBILITY :

Pipe Aid - 1 is compatible with all standard concrete materials as well as other concrete admixtures. When used with other admixtures, each one must be dispensed separately in to the mix.

PACKAGING : Poly pack of 115 gm each in a Cartoon of 100 Packs

PRECAUTIONS :

Pipe Aid -1 Admixtures should be stored in a dry location, protected from breakage, deterioration and contamination. They are not subject to damage from freezing temperatures.

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