



TECHNICAL DATA

PHILMIX F1 - HIGH RANGE, WATER REDUCING - TYPE F

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Concrete Pre Cast Admixture ASTM C494 Type F

PHILMIX F1 is a highly effective water reducing super plasticizer and an extremely powerful deflocculating agent, it operates by dispersing cement in to its primary particles which dramatically increases the flow characteristics of the cement paste. Based on the soluble salt of a polymeric sulphonate and polycarboxylate, it conforms to Type A and F materials of ASTM C494 and BSEN 934-2:1998

USES and ADVANTAGE

- To produce flowing concrete for large pours and precast elements.
- Used where substantial water reductions are required to provide high early and ultimate strengths e.g. in precast factories.
- High strength concrete produced at normal workability and cement contents.
- The resultant concrete is of a dense impermeable nature.
- Substantial increase in workability without additional water.
- Normal setting without retardation.
- Significant strength increases. Increased production in precast yards.
- Better surface finish. Fast stripping time Chloride free.
- Reduced shrinkage & creep. Suitable for hot climates. Improved water borne salt resistance.
- Can be used with concrete containing micro silica and other cement replacement.



TECHNICAL SUPPORT

PATS PINOY Representative provides a technical advisory service for on-site assistance and advice on mix design and proportioning, admixture selection, evaluation trials and dispensing equipment.

DOSAGE

The optimum dosage of **PHILMIX F1** to meet specific requirements should always be determined by trial using the materials and conditions that will be experienced in use. The normal dosage range is 0.8 to 1.2 liters / 100 kg of cementitious material, including PFA, GGBFS and microsilica.

USE at other DOSAGES

Dosages outside the typical range quoted above may be used if necessary and suitable to meet particular mix requirements. Contact PATS PINOY Representative for advice in these cases.

EFFECTS of OVERDOSING

An overdose of double the amount of **PHILMIX F1** will result in significant increase in retardation and bleeding as compared to that normally obtained. Provided that adequate curing is maintained, the ultimate strength of the concrete will not be impaired by increased retardation and will generally be increased. The effects of overdosing will be further increased if sulphate resisting cement or cement replacement materials are used. Over dosage is also likely to cause increased air entrainment, which will tend to reduce strength. The degree of this effect will depend on the particular mix design and overdose.



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PROPERTIES

Appearance	Brown liquid
Specific gravity	Typically 1.19 - 1.21 at 25°C
Chloride content	Nil to BS 5075
Alkali content	Nil

MIX DESIGN and PROPORTIONING

The mix design should be based on site trials for optimum results, consult PATS PINOY Representative for customized mixes. **PHILMIX F1** can be used for conventional precast pours or SCC, HSC, flowing concrete mix designs.

DESPENSING

The correct quantity of **PHILMIX F1** should be measured by means of a recommended dispenser. Normally, the admixture should then be added to the concrete with the mixing water to obtain the best results. Contact PATS PINOY Representative for advice regarding suitable equipment and its installation.

ESTIMATING and PACKAGING

PHILMIX F1 available in 200 liters – drum, 20 liters - container, 4 liters - container and 1 liter - container



STORAGE

PHILMIX F1 has minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50°C. If the temperature of the product fall outside this range. Contact PATS PINOY Representative for advice.

HEALTH and SAFETY

PHILMIX F1 does not fall into the hazard classifications of current regulations (see notes 1 and 2 below). However, it should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - **do not** induce vomiting. For further information consult the Material Safety Data Sheet available for this product.

FIRE

PHILMIX F1 is water based and non-flammable.

CLEANING and DISPOSAL

Spillages of **PHILMIX F1** should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water. The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance.

IMPORTANT NOTE

PATS PINOY products are guaranteed against defective materials and manufacturing, and are sold subject to its standard terms and conditions of sale. Copies of which may be obtained on request. Whilst PATS PINOY endeavors to ensure that the technical information on this data sheet is correct at the time of printing, it is the customer's responsibility to satisfy himself by checking with the company if this information is still current at the time of use,; that the product is suitable for the intended application; and that the actual conditions of use are in accordance with those recommended because PATS PINOY has no control over the conditions of use of its products. All recommendations or suggestions regarding the use of these products are made without guarantee.

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