



TECHNICAL DATA

PHILMIX R1 – WATER REDUCING, SET RETARDING - Type B & D

PHILMIX R1 – WATER REDUCING, SET RETARDING – TYPE B & D

Concrete Admixture ASTM C494 Type B & D

PHILMIX R1 is an efficient set retarding admixtures based on phosphates which temporarily stops the chemical action of hydration, delaying the initial set indirect proportion to the dosage used. It is supplied as brown solution which instantly dispenses in water. It complies ASTM C694-Type B and D **PHILMIX R1** dispenses the fine particles in the concrete mix, enabling the water content of the concrete with no adverse effect on subsequent stiffening and strength gain.

USES and ADVANTAGE

- Retarding water reducing admixture
- To improve the effectiveness of the water content of a concrete mix.
- To help maintain the workability of ready mixed concrete deliveries in hot weather.
- To extend working times of concrete.
- Particularly suitable for use in mixes with low cohesion.
- Controlled retardation extends working life and stiffening time for ease of construction.
- Control of stiffening improves slip forming and assists in preventing the formation of cold joints large pours.
- Minimized transportation delay problems, maintains place ability and reduces the risk of pump blockage.
- Slight air entrainment improves cohesion in mixes.



TECHNICAL SUPPORT

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

DOSAGE

The optimum dosage of **PHILMIX R1** to meet specific requirements should always be determined in use. The normal dosage range is 0.3 to 0.80 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

Provided that adequate curing is maintained. The ultimate strength of concrete will not be impaired the level of retardation obtained may be varied by altering the dosage of **PHILMIX R1** used, which will also alter the level of water reduction obtained. Retardation is also affected by factors other than the admixture, depending on the mix details and conditions involved.



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PROPERTIES

Appearance	Brown liquid
Specific gravity	Typical 1.10-1.15 at 25°C
Chloride content	Nil to BS 5075
Alkali content	Typically less than 3 g. BSEN 934-2

MIX DESIGN and PROPORTIONING

The mix design should be based on site trials. For optimum Results, consult PATS PINOY Representative for customized mixes.

DESPENSING

The correct quantity of **PHILMIX R1** should be measured by means of a recommended dispenser. The admixture should be measured by means of a recommended dispenser. The admixture should then be added to the concrete with the mixing water to obtain the best results. PATS PINOY Representative for advice regarding suitable equipment and its installation.

ESTIMATING and PACKAGING

PHILMIX R1 is available in 200 liters – drum, 20 liters - container, 4 liters - container and 1 liter - container



STORAGE

PHILMIX R1 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 R1 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 R1 is water based and non-flammable.

CLEANING and DISPOSAL

Spillages of **PHILMIX R1** 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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