



Concrete Admixtures and Fiber

## WRAD

Water Reducer / Set Retarder

### DESCRIPTION

**WRAD** is a highly concentrated low cost water reducing and set retarding admixture. It is a highly processed liquid copolymer; free of chlorides and sugars. **WRAD** is a cement dispersant which acts as a catalyst producing high strength and durability, reducing water:cement ratio, retarding initial set, reducing shrinkage and increasing workability.

**WRAD** is produced under strict quality control conditions specifically for the Ready-Mixed Concrete and General Construction Industries.

### ADVANTAGES

- Increases strength by reducing water requirement by 5% to 21%
- Reduces cracking by minimizing plastic shrinkage.
- Improves workability; particularly at low slumps.
- Retarded initial set allows time for proper placement and finishing without cold joints.

### TECHNICAL INFORMATION

**WRAD** does not entrain air, but is generally compatible with most air-entraining agents. It can also be used in conjunction with accelerators, fly ash and other admixtures. (Please consult with our field technicians before combining **WRAD** with any other admixture.)

**WRAD** meets ASTM C494, latest revision for Types A & D.

## INTERNATIONAL MATERIALS INDUSTRIES, L.L.C.

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## APPLICATION

WRAD dosage is 3oz. to 12oz. per 100 lbs of cement (196 ml to 782 ml per 100kgm of cement).

The maximum dosage (in high temperatures) that will not produce excessive retardation in the concrete is 16 Oz. per 100 lbs of cement (1.0 L per 100 Kg of cement). In cold weather this dosage is closer to 12 oz. per 100 lbs of cement or less.