

# MIRA® 62

Mid-Range Water Reducing Admixture

## DESCRIPTION

MIRA® 62 is a linear dose water-reducing and mid-range water-reducing admixture manufactured under rigorous quality control to ensure uniform, predictable performance. MIRA® 62 does not contain added calcium chloride. MIRA® 62 weighs approximately 8.8 lbs/gal (1.06 kg/L).

The superior dispersion capability of MIRA® 62 produces concrete with significantly improved early and ultimate compressive strength while maintaining near-neutral set times even in lower temperatures. The linear dose water reduction capability of MIRA® 62 also produces less permeable, more durable concrete.

## ADVANTAGES

- Linear water reduction capability
- Superior strength performance
- Near-Neutral set times
- Superior workability and finishability
- Improved performance with pozzolans

## FIELDS OF APPLICATION

MIRA® 62 can be used in Ready mix, job site and concrete paving plants for normal and lightweight concrete, and in block and precast products.

## Method of Use

### Dosage

- Addition rate may be varied to achieve the desired water reduction and set time. Typically, addition rates range from 2.5–15 fl oz/100 lbs (160–1000 mL/ 100 kg) of cementitious materials. Addition rates may vary depending on materials, job conditions and desired performance characteristics.

### Additional Usage Recommendations

- MIRA® 62 is recommended for use with a wide range of concrete slumps including 3 to 8 in. (75 to 200 mm) where superior finishing characteristics is desired, particularly in commercial and residential flatwork and formed concrete applications.

### Equipment

- A complete line of accurate, automatic dispensing equipment is available.

### Complimentary Products

- MIRA® 62 is compatible with most admixtures as long as they are added separately to the concrete mix, usually through the water holding tank discharge line. However MIRA® 62 is not recommended for use in concrete containing naphthalenebased admixtures including DARACEM® 19 and DARACEM® 100, and melamine-based admixtures including DARACEM® 65. In general, it is recommended that MIRA® 62 be added to the concrete mix near the end of the batch sequence for optimum performance. Please see [Technical Bulletin TB-0110, Admixture Dispenser Discharge Line Location and Sequencing for Concrete Batching Operations](#) for further recommendations. For optimum performance, different sequencing may be used if local testing shows better performance.
- Pretesting of the concrete mix should be performed before use, as conditions and materials change in order to assure compatibility, and to optimize dosage rates, addition times in the batch sequencing and concrete performance. For concrete that requires air entrainment, the use of an ASTM C260 air-entraining agent (such as DARAVAIR® or DAREX® product lines) is recommended to provide suitable air void parameters for freeze-thaw resistance.

The information contained in this technical data sheet is given to the best of our knowledge and the result from extensive testing - which were conducted in order to remain as objective as possible. However, it cannot, in any case, be considered as a warranty involving our liability in case of misuse or any different use of our products, other than those from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users.

## MIRA® 62

Mid-Range Water Reducing Admixture

### CHARACTERISTICS

|                                        |                            |
|----------------------------------------|----------------------------|
| <b>Product Nature</b>                  | Liquid                     |
| <b>Color</b>                           | Colourless to light yellow |
| <b>Shelf life</b>                      | 9 months                   |
| <b>Cl<sup>-</sup> ions content</b>     | < 0,100 %                  |
| <b>Specific gravity (25°C) in g/ml</b> | 1,062                      |
| <b>pH (25°C)</b>                       | 5,00                       |

### PACKAGING

- Bulk
- 275 gallon tote
- 55 gallon drum

### ADDITIONAL CERTIFICATIONS & MARKINGS

- Concrete shall be designed in accordance with *Standard Recommended Practice for Selecting Proportions for Concrete*, ACI 211.
- MIRA® 62 shall be manufactured to meet all the requirements of *Specification for Chemical Admixtures for Concrete*, ASTM Designation C494 as a Type A and Type F admixture.
- The admixture shall be delivered as a ready-to use, liquid product and shall not require mixing at the batching plant or job site. The admixture shall not contain added calcium chloride. It shall be used in strict accordance with manufacturers' recommendations.

### PRECAUTIONS

- MIRA® 62 will begin to freeze at approximately 25°F (-4°C) but will return to full strength after thawing and thorough agitation. In storage and for proper dispensing, the temperature of MIRA® 62 should be maintained above 32°F (0°C).

### SAFETY

Prior to any use, please read carefully the Safety data Sheet.