



# MORTARSET LIQUID

*Set Accelerating  
Admixture for Mortar*

## 1. Product Description

a. **Basic Use:** Mortarset Liquid is a liquid admixture formulated to accelerate the set of mortar in cold weather. Mortarset Liquid is added to both masonry and portland cement mortars used to lay brick, block, stone, tile and glass block. Mortarset Liquid also improves workability while increasing early age strengths of mortar.

### b. Features/Benefits:

- Accelerates set and early age compressive strength gain.
- Plasticizing action improves workability, decreases permeability and increases density and compressive strengths at all ages.
- Reduces construction costs by eliminating need for extended thermal protection and eliminating labor overtime due to cold weather.
- Easy-to-use by simply adding to mixing water.
- May be added to normal gray and colored mortars.
- Allows masonry construction to continue at temperatures as low as 20°F (-7°C).
- Helps prevent freezing of mortar when ambient temperatures are lower than 32°F (0°C).

c. **Typical Applications:** Use as a liquid admixture to accelerate and increase early age strengths of mortar used to lay block, brick, stone, tile and glass block. Also used in mortar to set fence posts, mailbox supports, signs, handrails and poles.

d. **Limitations:** Mortarset Liquid must be completely diluted in water before adding to cement and aggregate. Do not use in mortar next to unprimed metal surfaces such as door and window frames.

e. **Composition:** Mortarset Liquid consists of plasticizers, calcium chloride accelerators and other proprietary ingredients.

f. **Color/Appearance:** Mortarset Liquid is light blue in color.

## 2. Packaging

Mortarset Liquid is packaged in three standard units:

<i>Unit</i>	<i>Shipping Wt.</i>
<i>1-gal. (3.8 liter) jug (4 per case)</i>	<i>60 lbs. (27.2 Kg)</i>
<i>5-gal. (18.9 liter) pail</i>	<i>50 lbs. (22.7 Kg)</i>
<i>55-gal. (208 liter) drum</i>	<i>545 lbs. (247.2 Kg)</i>

## 3. Estimating/Coverage

Recommended dosage per sack of cement is shown below:

<i>Temperature</i>	<i>Masonry Cement</i>	<i>Portland Cement</i>
<i>Above 35°F (2°C)</i>	<i>1 pt. (0.47 liter)</i>	<i>1 qt. (0.95 liter)</i>
<i>Below 35°F (2°C)</i>	<i>1 qt. (0.95 liter)</i>	<i>2 qt. (1.89 liter)</i>

## 4. Technical Data

[All data at 35°F (2°C)]

a. **Compressive Strength:** ASTM C 109, psi (MPa).

<i>Age</i>	<i>Plain Mortar</i>	<i>Mortarset Liquid</i>
<i>12 hours</i>	<i>-----</i>	<i>60 (0.4)</i>
<i>24 hours</i>	<i>30 (0.2)</i>	<i>190 (1.3)</i>
<i>7 days</i>	<i>720 (5.0)</i>	<i>950 (6.6)</i>
<i>28 days</i>	<i>1,270 (8.8)</i>	<i>1,450 (10.0)</i>

b. **Initial Set:**

- Plain Mortar: 3 hours, 30 minutes
- Mortarset Liquid: 2 hours, 15 minutes

c. **Final Set:**

- Plain Mortar: 5 hours, 30 minutes
- Mortarset Liquid: 4 hours, 15 minutes

## 5. Directions for Use

a. **Mixing:** Simply add recommended dosage of Mortarset Liquid as indicated into mixing water. All Mortarset Liquid must be completely diluted into the mixing water before adding cement, aggregate and lime. Where large quantities of mixing liquid will be needed, an open top 55-gal. (208 liter) drum may be used to dispense and blend Mortarset Liquid with water. As an approximate guideline, add one 5-gal. (18.9 liter) pail to the drum and dilute with 40 gal. (151.4 liter) of water to provide a 2 qt. (1.89 liter) per sack dosage rate.

b. **Application:** Use mortar enhanced with Mortarset Liquid in accordance with good construction practice and the Masonry Institute guidelines.

c. **Clean-Up:** Waterzall Concentrate and water may be used for cleaning tools and equipment.

## 6. Availability

Mortarset Liquid is normally available immediately from your local distributor or it will be shipped within 5 working days upon receipt of order. Please contact your local Metalcrete representative or call Metalcrete directly for more information.

## 7. Warranty

Mortarset Liquid is manufactured in strict accordance with the quality control standards of Metalcrete Industries. It is guaranteed to perform as indicated on this data sheet when applied by competent applicators.

## 8. Technical Service

Metalcrete technical service representatives are available to provide on-site assistance with a minimum three day notice.



***Metalcrete Industries***

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