



MORTARSET POWDER

*Set Accelerating
Admixture for Mortar*

1. Product Description

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

b. **Features/Benefits:**

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

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

d. **Limitations:** Mortarset Powder must be completely dissolved in water before adding to cement and aggregate. Do not use directly adjacent to unprimed metal surfaces such as door and window frames.

e. **Composition:** Mortarset Powder consists of powdered calcium chloride, and other proprietary ingredients.

f. **Color/Appearance:** Mortarset Powder is white in color.

2. Packaging

Mortarset Powder is packaged in one standard unit:

<i>Unit</i>	<i>Shipping Wt.</i>
1-lb. (0.45 Kg) bags (20 per case)	22 lbs. (10.0 Kg)

3. Estimating/Coverage

Recommended dosage of Mortarset Powder 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>1/2 bag</i>	<i>1 bag</i>
<i>Below 35°F (2°C).</i>	<i>1 bag</i>	<i>2 bags</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 Powder</i>
<i>12 hours</i>	<i>-----</i>	<i>50 (0.3)</i>
<i>24 hours</i>	<i>30 (0.2)</i>	<i>200 (1.4)</i>
<i>7 days</i>	<i>720 (5.0)</i>	<i>1,000 (6.9)</i>
<i>28 days</i>	<i>1,270 (8.8)</i>	<i>1,500 (10.3)</i>

b. **Initial Set:**

- Plain Mortar: 3 hours, 30 minutes
- Mortarset Powder: 2 hours, 5 minutes

c. **Final Set:**

- Plain Mortar: 5 hours, 30 minutes
- Mortarset Powder: 4 hours, 0 minutes

5. Directions for Use

a. **Mixing:** Simply add recommended dosage of Mortarset Powder as indicated into mixing water. All powder must be completely dissolved before adding cement, aggregate and lime.

b. **Application:** Use mortar enhanced with Mortarset Powder 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 Powder 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 Powder 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

4133 Payne Avenue • Cleveland, Ohio 44103
440-526-5600 • 800-526-5602 • FAX 440-526-5601