

FLEX SET MORTAR Thin Set Mortar

Overview

Multicoat's FLEX SET MORTAR is a top-tier polymer-modified mortar adhesive designed to set various materials, including tile, glass, stone, brick, brick veneer, and rock. One of its standout features is its versatility, as it can be effectively used underwater. Meets or exceeds ANSI A118.4, A118.1, A118.11

Surface Preparation

Substrate must be structurally sound, free from grease, oil, paint, dirt, dust and sealers. Laitance, curing compounds and any other foreign material which may prevent proper bonding. When applying to any cementitious surface, that surface must be fully cured. Water should be able to penetrate the substrate. If water beads, surface contaminates are present. Insure that surface is not subjected to hydrostatic pressure, if so, do not apply. Concrete slabs and mortar beds should have a coarse finish to assist in bonding. When applying to Gypsum and Lightweight Cement the substrate must have a minimum of 2,000 psi compressive strength. Must be dry and properly cured. Roughen the surfaces by sanding or scarifying, rinse and allow to dry. Do not sand floors that contain asbestos.

Application

Step 1: FLEX SET MORTAR is to be field mixed with clean potable water and mechanically mixed to desired consistency based upon scope of application. Add approximately 6-1/2 quarts of water into mixing container. Slowly pour the contents of the bag into the mixing water. Mix until a firm, workable consistency is achieved. If more water is needed, add small amounts and continue to mix until consistency is achieved. Let the mixture slake or stand 5 to 10 minutes, then stir again and use. Stir occasionally but do not add more water. Desired consistency should be trowel ridges should stand without slumping. Do not exceed a total volume of 1.5 gallons of water for each 65-lb. bag. Be sure mixed material is consistent from batch to batch.

Step 2: Apply FLEX SET MORTAR to substrate with flat trowel. Use a properly sized notch trowel to insure proper coverage and spread of material under tiles. Work placed FLEX SET MORTAR with notched trowel to create rows of adhesive to proper thickness for item being placed. Press tile firmly in place, moving back and forth to insure a proper set. Adjust tile quickly and then gently tap into place with rubber mallet or beating block until flush with other units. Periodically pull up a tile or stone and check the back to insure proper adhesive coverage. If mortar has already taken its set under the lifted tile, remove mortar and replace with fresh FLEX SET MORTAR can be a total of 3/8" thick once item has been set and tamped into place.

Step 3: Curing time will vary due to weather conditions, thickness, substrate absorption, etc. Material should be protected from weather elements and foot traffic for a minimum of 24 hours. Provision for movement (expansion joints and control joints) and other changes of plane in all installations are required. Do not bridge expansion or control joints. Those joints should be *brought up through the work and filled with a suitable caulking.*

Coverage

Up to 8"	1/4"x1/4"x1/4" Sq. Notch	90-100 Sq. Ft/Bag
8" to 12"	1/2"x1/2"x1/2" Sq. Notch	60-70 Sq. Ft/Bag
12" +	1/2"x1/2"x1/2" Sq. Notch	45-50 Sq. Ft/Bag

Limitations

- **DO NOT** apply if precipitation is expected within twelve hours of application.
- **DO NOT** apply if ambient air temperature is 40°F and falling or above 100°F and rising.
- **DO NOT** add other materials to the mixture of the product.
- **We DO NOT** recommend MULTI SET MORTAR to be used to set glass tile. When applying glass tile, insure glass tile manufacturer instructions are closely followed.
- **DO NOT** apply to walls or floors that are subjected to negative side pressure.

Packaging And Storage

- Store bags in a cool, dry location.
- Store away from direct contact with the ground or concrete.
- Protect from weather and other damage.
- Shelf life is approximately 24 months in unopened bags.

Damage Limitation

Seller shall not be liable for any damages, injury, loss, direct or consequential, resulting from its products. The parties intend that the limitation of damages, including consequential damages, applies even if the exclusive remedy provided for herein fails of its essential purpose.

Exclusive Remedy

Seller's sole obligation, and buyer's exclusive remedy shall be to replace material if found to be defective.

Warranty Disclaimer

There are no warranties which extend beyond the description of the fact hereof. Seller expressly disclaims all other warranties regarding the use of its products, whether expressed or implied, including the implied warranties of merchantability and for fitness of a particular purpose. Since use of the product is beyond the Seller's control, the Buyer assumes all risk of use.

Warranty

Materials are guaranteed with respect to uniformity and quality within manufacturer' specifications.

TEST RESULT / ANSI A 118.14

Open Time— PSI 20 Minute	170	75
Shear Strength, PSI		
Faux Brick to Concrete		
7 Day	270	
28 Day	380	
Quarry Tile		
28 Day	305	150
Glazed Tile		
7 Day	405	300
7 Day Wet	245	200
Mosaic Tile		
1 Day	80	75
7 Day	325	200
7 Day Wet	160	150
28 Day	365	200
Faux Brick to Faux Brick		
7 Day	265	
28 Day	435	

TEST DATA FLEX SET MORTAR

TEST	RESULT	Mode Of Failure
ASTM C-482		
Bond Strength, PSI 16		Staple/Lathe & Cement
ASTM C-273		
Shear Strength, PSI 54		Bond Fail at brick tile to Grout



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MULTI-SET MORTAR Thin Set Mortar

Overview

Multicoat's MULTI SET – a standard modified mortar adhesive designed for setting tile, stone, brick, brick veneer, and rock. Whether above ground or underwater, MULTI SET ensures durability and strong adherence even in the most challenging aquatic environments. Perfect for a variety of **underwater** projects, MULTI SET offers innovative thin-set solutions with robust bonding capabilities, all at a **competitive price point**. Meets or exceeds ANSI A118.4, A118.1, A118.11

Surface Preparation

Substrate must be structurally sound, free from grease, oil, paint, dirt, dust and sealers. Laitance, curing compounds and any other foreign material which may prevent proper bonding. When applying to any cementitious surface, that surface must be fully cured. Water should be able to penetrate the substrate. If water beads, surface contaminates are present. Insure that surface is not subjected to hydrostatic pressure, if so, do not apply. Concrete slabs and mortar beds should have a coarse finish to assist in bonding. When applying to Gypsum and Lightweight Cement the substrate must have a minimum of 2,000 psi compressive strength. Must be dry and properly cured. Roughen the surfaces by sanding or scarifying, rinse and allow to dry. Do not sand floors that contain asbestos.

Application

Step 1: MULTI-SET MORTAR is to be field mixed with clean potable water and mechanically mixed to desired consistency based upon scope of application. Add approximately 6-1 1/2 quarts of water into mixing container. Slowly pour the contents of the bag into the mixing water. Mix until a firm, workable consistency is achieved. If more water is needed, add small amounts and continue to mix until consistency is achieved. Let the mixture slake or stand 5 to 10 minutes, then stir again and use. Stir occasionally but do not add more water. Desired consistency should be trowel ridges should stand without slumping. Do not exceed a total volume of 1.5 gallons or water for each 65-lb. bag. Be sure mixed material is consistent from batch to batch. **Step 2:** Apply MULTI-SET MORTAR to substrate with flat trowel. Use a properly sized notch trowel to insure proper coverage and spread of material under tiles. Work placed MULTI-SET MORTAR with notched trowel to create rows of adhesive to proper thickness for item being placed. Press tile firmly in place, moving back and forth to insure a proper set. Adjust tile quickly and then gently tap into place with rubber mallet or beating block until flush with other units. Periodically pull up a tile or stone and check the back to insure proper adhesive coverage. If MULTI-SET MORTAR can be a total of 3/8" thick once item has been set and tamped into place.

Step 3: Curing time will vary due to weather conditions, thickness, substrate absorption, etc. Material should be protected from weather elements and foot traffic for a minimum of 24 hours.

Provision for movement (expansion joints and control joints) and other changes of plane in all installations are required. Do not bridge expansion or control joints. Those joints should be brought up through the work and filled with a suitable caulking.

Coverage

Up to 8"	1/4"x1/4"x1/4" Sq. Notch	90-100 Sq. Ft/Bag
8" to 12"	1/2"x1/2"x1/2" Sq. Notch	60-70 Sq. Ft/Bag
12" +	1/2"x1/2"x1/2" Sq. Notch	45-50 Sq. Ft/Bag

Limitations

- **DO NOT** apply if precipitation is expected within twelve hours of application.
- **DO NOT** apply if ambient air temperature is 40°F and falling or above 100°F and rising.
- **DO NOT** add other materials to the mixture of the product.
- **We DO NOT** recommend MULTI SET MORTAR to be used to set glass tile. When applying glass tile, insure glass tile manufacturer instructions are closely followed.
- **DO NOT** apply to walls or floors that are subjected to negative side pressure.

Packaging And Storage

- Store bags in a cool, dry location.
- Store away from direct contact with the ground or concrete.
- Protect from weather and other damage.
- Shelf life is approximately 24 months in unopened bags.

Damage Limitation

Seller shall not be liable for any damages, injury, loss, direct or consequential, resulting from its products. The parties intend that the limitation of damages, including consequential damages, applies even if the exclusive remedy provided for herein fails of its essential purpose.

Exclusive Remedy

Seller's sole obligation, and buyer's exclusive remedy shall be to replace material if found to be defective.

Warranty Disclaimer

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STANDARD SET MORTAR Thin Set Mortar

Overview

Multicoat's STANDARD SET MORTAR is a standard mortar adhesive used to set tile, stone, brick veneer and rock over concrete surfaces at an economical price. Meets or exceeds ANSI A118.4, A118.1, A118.11

Surface Preparation

Substrate must be structurally sound, free from grease, oil, paint, dirt, dust and sealers. Laitance, curing compounds and any other foreign material which may prevent proper bonding. When applying to any cementitious surface, that surface must be fully cured. Water should be able to penetrate the substrate. If water beads, surface contaminates are present. Insure that surface is not subjected to hydrostatic pressure, if so, do not apply. Concrete slabs and mortar beds should have a coarse finish to assist in bonding. When applying to Gypsum and Lightweight Cement the substrate must have a minimum of 2,000 psi compressive strength. Must be dry and properly cured. Roughen the surfaces by sanding or scarifying, rinse and allow to dry. Do not sand floors that contain asbestos.

Application

Step 1: STANDARD SET MORTAR is to be field mixed with clean potable water and mechanically mixed to desired consistency based upon scope of application. Add approximately 6-1/2 quarts of water into mixing container. Slowly pour the contents of the bag into the mixing water. Mix until a firm, workable consistency is achieved. If more water is needed, add small amounts and continue to mix until consistency is achieved. Let the mixture slake or stand 5 to 10 minutes, then stir again and use. Stir occasionally but do not add more water. Desired consistency should be trowel ridges should stand without slumping. Do not exceed a total volume of 1.5 gallons or water for each 65-lb. bag. Be sure mixed material is consistent from batch to batch.

Step 2: Apply STANDARD MORTAR to substrate with flat trowel. Use a properly sized notch trowel to insure proper coverage and spread of material under tiles. Work placed STANDARD SET MORTAR with notched trowel to create rows of adhesive to proper thickness for item being placed. Press tile firmly in place, moving back and forth to insure a proper set. Adjust tile quickly and then gently tap into place with rubber mallet or beating block until flush with other units. Periodically pull up a tile or stone and check the back to insure proper adhesive coverage. If STANDARD SET MORTAR can be a total of 3/8" thick once item has been set and tamped into place.

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