CLEANING

- Clean exposed units after mortar is thoroughly set and cured.
- Perform test of cleaner on small area of 4’ x 4’ on each profile.
- Let test area dry 4 to 5 days before inspection. Keep test area and color; then receive approval by architect before full cleaning.
- Do not use harsh cleaning materials or methods that would damage or alter the surface.
- Do not use pry bars or other equipment in a manner that could damage units.

REPAIR

- Repair chips and other surface damage if noticeable when viewed in direct daylight at 20’.
- Repair cracks and other surface damage that can be seen and measured.
- Repair cracks and other surface damage that cannot be seen or measured.
- Repair cracks and other surface damage that are wider than .010 in.
- Use only repair methods that are approved by architect.
- Use materials provided by manufacturer.
- Do not double stack pallets.
- Store units on pallets with non-staining waterproof covers.
- Handle long units at the center and both ends simultaneously to prevent cracking.
- Pay close attention to weather and evening temperature in colder months and follow cleaner manufacturer instructions.
- Do NOT use the following for clean units:
  - Sandblasting
  - Power washing
  - Muriatic acid

SURE KLEAN® 600 DETERGENT
- Concentrated acidic cleaner formulated for new masonry surfaces subject to vanadium, manganese and other metallic stains. Is designed to simplify rinsing and reduces potential for efflorescence.

SURE KLEAN® VANA TROL®
- Concentrated acidic cleaner for new masonry surfaces subject to vanadium, manganese and other metallic stains. Is designed to simplify rinsing and reduces potential for efflorescence.

SURE KLEAN® CUSTOM MASONRY CLEANER
- Removes concrete splashes, excess mortar, mud, retarders, heavy efflorescence, embedded gravel, dirt, rust, and other organic material from hard-to-reach concrete surfaces.

SURE KLEAN® LIGHT DUTY CONCRETE CLEANER
- Specially formulated to remove common construction and atmospheric staining from a variety of substrates, including precast, concrete, and fabricated concrete structures. Ideal for cleaning concrete, precast, and other exposed concrete surfaces.

SURE KLEAN® 400 MASONRY CLEANER
- Provides stronger action than standard cleaners, and is designed to clean all types of surfaces.

SURE KLEAN® 800 MASONRY CLEANER
- Provides the strongest action of all cleaners, and is designed to clean all types of surfaces.

SURE KLEAN® LIGHT DUTY CONCRETE CLEANER
- Removes concrete splashes, excess mortar, mud, retarders, heavy efflorescence, embedded gravel, dirt, rust, and other organic material from hard-to-reach concrete surfaces.

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- Provides the strongest action of all cleaners, and is designed to clean all types of surfaces.
QUALITY ASSURANCE

• Clean and dry RockCast units prior to project start. This project budget allows Reading Rock to solicit input on potential areas of concern.
• Clean samples or field panels identifying shipping, handling, and maintenance of RockCast.
• Do not reject units with minor chipping or flaking from same sources proposed for use in project.
• Ensure maximum of 15% error variance on the unit profile and shape.

MANAGING MOISTURE CONTROL, SHRINKAGE AND CRACKING

Reading Rock’s RockCast stone is ideal for concrete masonry products and may shrink slightly. The most common moisture shrinkage/extract water from drying shrinkage, temperature changes, carbonation and differential movement.

• Do not exceed the tolerances below in addition to the NCMA guidelines.

LIFETIME WARRANTY

• Clean RockCast units immediately after shipping and handling of RockCast. RockCast is produced with an integral weather seal. In the mix design. Shrinkage is a result of the evaporation of water from the cast stone. When water is retained, the cast stone will exceed 1/16” in 5’, 1/4” in 20’, or 3/8” maximum.

LEADERS IN LEED

• Mary Reading Rock products contribute to the achievement of LEED credits and prerequisites. We proudly support the development of Green Building. We are an environmentally conscious, one product with LEED points for this assurance. Reading Rock was one of the first cast stone manufacturers to contribute reusable products to supplement the growing LEED market. Not only does RockCast provide more durable, cost-effective, and energy-efficient products, it also has a higher degree of natural beauty.

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TOLERANCES

1. Do not exceed the tolerances below in addition to the NCMA guidelines.

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LEADERS IN LEED®

Many Reading Rock products contribute to the achievement of LEED® credits on projects. We proudly support the development of green products and are committed to developing our entire product line with respect to the environment. In fact, Reading Rock’s RockCast must be installed according to standard masonry specifications and within the guidelines of local building codes.

MANAGING MOISTURE CONTROL, SHRINKAGE AND CRACKING

Reading Rock’s RockCast stone is a commonly installed material on many different projects. It’s designed to carry only its own weight. While architectural precast stone is required to be nonshrink, its thickness is increased by 3% to account for the moisture control, shrinkage, and differential movement.

Do not place more than 1 in. of liquid on any RockCast or RockCast products. The amount of water repellent that is applied in the shop can vary widely depending on the specific product. For access to NCMA TEK Bulletins, log on to www.readingrock.com for a direct link to NCMA’s eTEK website.

TOLERANCES

1. Day-to-day shrinkage is a structural process. It’s designed to carry only its own weight. While architectural precast stone is required to be nonshrink, its thickness is increased by 3% to account for the moisture control, shrinkage, and differential movement.

2. Moisture value ratios generally 15 is L/15. Units should not be placed larger than 15”, unless the expected thickness dimension. Architectural precast, used in wall, has a moisture ratio greater than 25.0 to 25.0 or depending on the wall profile and slope.

3. Do not deviate by more than plus or minus 10% from the shop draw dimensions. Additional information may be found in NCMA TEK Bulletins. Do not deviate by more than plus or minus 10%.

4. Efflorescence is visible when viewed in direct daylight is acceptable. Use Type N mortar, unless otherwise indicated on the drawings. Make joints 3/8” for light or fence posts should be filled with flexible caulk to prevent movement. Do not exceed 1/8” in 5’, 1/4” in 10’ variation from Plumb. Do not exceed 1/8” difference between planes of adjacent units or adjacent surfaces tolerances to be considered with horizontal joint reinforcement.”

LEADING THE WAY

Stone Products

Rocks Cast, a product of Reading Rock Inc., is a uniquely produced stone masonry product composed of a high-density mixture of fine aggregate, binders, silica fume, and portland cement. Its classic look, warm, honeycomb, and durability have made it a popular choice among contractors, architects, and specifiers. Follow the tips in this guide to ensure successful installation, handling, and maintenance of RockCast.

QUALITY ASSURANCE

Specs and a product of the RockCast project budget allows Reading Rock’s RockCast field panels are installed in conjunction with masonry. 

1. Full units from multiple values: using installation to minimize variation in color, boldness with natural bedding. RockCast products are manufactured from natural limestone that has color range as part of its natural beauty. 

4. Clean samples or field panels based on Reading Rock recommendations. RockCast field panels allow the architect to verify: • Fit of adjacent units • Unfinished side. 

LIFETIME WARRANTY

Reading Rock Inc. warrants products to meet ASTM manufacturing specifications and guidelines provided the products have been installed, used, and maintained according to acceptable ASTM manufacturing standards and recommended by the manufacturer. For complete warranty information please see the Reading Rock Inc. Terms and Conditions of Sale.

STABILITY AND UNIVERSITY

Leaders in LEED®

Reading Rock’s RockCast is produced in strict adherence to ASTM manufacturing guidelines and as recommended by the manufacturer. (For complete Reading Rock, Inc. warrants its products to meet ASTM manufacturing guidelines and RockCast, a product of Reading Rock, Inc.®, is a uniquely produced stone masonry product composed of a high-density mixture of fine aggregate, binders, silica fume, and portland cement. Its classic look, warm, honeycomb, and durability have made it a popular choice among contractors, architects, and specifiers. Follow the tips in this guide to ensure successful installation, handling, and maintenance of RockCast.

TIPS FOR WORKING WITH ROCKCAST® ARCHITECTURAL STONE PRODUCTS

A PRACTICAL REFERENCE GUIDE FOR THE FIELD

INSTALLATION

Reading Rock RockCast is installed according to standard masonry specifications and the guidelines of local building codes.

5. Sealant is not required. RockCast is produced with an integral water repellent (WWR) in the mix design. Sealing is required with a water repellent based on the specific requirements of the architect or owner.

1. Submit full-size sample pieces when viewing in direct daylight. Field panels are installed in conjunction with masonry. Tolerances are based on dimensions of natural limestone that have color range as part of its natural beauty.

2. Use Type N mortar, unless otherwise indicated on the drawings. Make joints 3/8” for light or fence posts should be filled with flexible caulk to prevent movement. Do not exceed 1/8” difference between planes of adjacent units or adjacent surfaces tolerances to be considered with horizontal joint reinforcement.”

1. No special units with return edges meeting along a straight or diagonal line are required.

2. Do not deviate by more than plus or minus 10% from the shop draw dimensions. Additional information may be found in NCMA TEK Bulletins. Do not deviate by more than plus or minus 10%.

3. Efflorescence is visible when viewed in direct daylight is acceptable. Use Type N mortar, unless otherwise indicated on the drawings. Make joints 3/8” for light or fence posts should be filled with flexible caulk to prevent movement. Do not exceed 1/8” in 5’, 1/4” in 10’ variation from Plumb.

4. Efflorescence is visible when viewed in direct daylight is acceptable. Use Type N mortar, unless otherwise indicated on the drawings. Make joints 3/8” for light or fence posts should be filled with flexible caulk to prevent movement. Do not exceed 1/8” difference between planes of adjacent units or adjacent surfaces tolerances to be considered with horizontal joint reinforcement.”

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The most common shrinkage/thermal issues come from drying shrinkage, temperature change, carbonation, and differential movement.

MOVEMENT JOINT LOCATIONS

1. No special units with return edges meeting along a straight or diagonal line are required.

2. Do not deviate by more than plus or minus 10% from the shop draw dimensions. Additional information may be found in NCMA TEK Bulletins. Do not deviate by more than plus or minus 10%.

3. Do not deviate by more than plus or minus 10% from the shop draw dimensions. Additional information may be found in NCMA TEK Bulletins. Do not deviate by more than plus or minus 10%.

4. Efflorescence is visible when viewed in direct daylight is acceptable. Use Type N mortar, unless otherwise indicated on the drawings. Make joints 3/8” for light or fence posts should be filled with flexible caulk to prevent movement. Do not exceed 1/8” difference between planes of adjacent units or adjacent surfaces tolerances to be considered with horizontal joint reinforcement.”

5. Sealant is not required. RockCast is produced with an integral water repellent (WWR) in the mix design. Sealing is required with a water repellent based on the specific requirements of the architect or owner.

1. No special units with return edges meeting along a straight or diagonal line are required.

2. Do not deviate by more than plus or minus 10% from the shop draw dimensions. Additional information may be found in NCMA TEK Bulletins. Do not deviate by more than plus or minus 10%.

3. Efflorescence is visible when viewed in direct daylight is acceptable. Use Type N mortar, unless otherwise indicated on the drawings. Make joints 3/8” for light or fence posts should be filled with flexible caulk to prevent movement. Do not exceed 1/8” difference between planes of adjacent units or adjacent surfaces tolerances to be considered with horizontal joint reinforcement.”

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LEADERS IN REB®

Many Reading Rock products contribute to the achievement of LEED® credits or points. We proudly support the development of green building innovations and are committed to developing and improving our entire product line. For more information on LEED® opportunities, please see Reading Rock Inc. Terms and Conditions of Sale.

MANAGING MOISTURE CONTROL, SHRINKAGE AND CRACKING

Reading Rock’s RockCast® is ideal for concrete masonry products that require light to medium durability ratings. The moisture, shrinkage, deformation and differential movement concerns usually associated with the use of concrete masonry units may be an issue with RockCast®. However, RockCast® has been designed to minimize moisture control, shrinkage and cracking.

For access to NCMA TEK Bulletins, log on to www.readingrock.com for a direct link to NCMA’s eTEK website.

TOLERANCES

1. Depth tolerance is 0.015 in. ± 0.005 in. per linear ft.

2. Moisture control criteria are based on normal or low moisture content and exposed areas.

3. Uniformity of the units is required. However, a slight variation in the moisture content is allowed, and maximum size ratio of 20 or 25 to one depending on the wall height. Architectural precast, used with rebar, has a lower moisture content; however, it is non-structural.

MOVEMENT JOINT LOCATIONS

The most common shrinkage/strain issues come from drying shrinkage, temperature changes, carbonation, and differential movement.
**HANDLING AND STORAGE**

- Protect units at all times to prevent shipping, cracking, chipping or other damage.
- Handle long units at the center and both ends simultaneously to prevent cracking or breakage.
- Store units on pallets with non-staining waterproof covers.
- Do not double stack pallets.
- Maintain units under cover to prevent condensation.
- Prevent contact with dirt and splashing.
- Do not use pry bars or other equipment in a manner that could damage units.

**CLEANING**

- Clean exposed units after mortar is thoroughly set and cured.
- Perform test of cleaner on small area of 4’ x 4’ on each profile simultaneously to prevent cracking.
- Clean wall should be cleaned within 1 to 2 weeks of installation for best results.
- Do not use the following to clean units:
  - Sandblasting
  - Power washing
  - Harsh cleaning materials or methods that would damage or alter the surface texture. Light Duty Concrete Cleaner adds depth to colors, brightens white matrices and exposed aggregate.
  - Properly formulated to remove common construction and atmospheric dirt from a variety of substrates, including precast concrete, custom-masonry concrete blocks, manufactured stone and decorative veneers. This glycol-based, non-staining, mild cleaner removes heavy dirt, normal atmospheric dirt and other dirt without altering the surface texture. Light Duty Concrete Cleaner is good for low or medium dirt and exposed aggregate.

**REPAIR**

- Repair chips and other surface damage for future comparison.
- Let test area dry 4 to 5 days before inspection. Keep test area and color; then receive approval by architect before full cleaning.
- Perform test of cleaner on small area before using the whole cleaner.
- Do NOT use different to clean units:
  - Muriatic acid
  - Muriatic acid or other equipment in a manner that could damage units.

**SURE KLEAN® 600 DETERGENT**

- Concentrated detergent for new masonry surfaces subject to vanadium, manganese and other metallic stains. Is designed to simplify rinsing and reduces potential for efflorescence.
- Dissolves mortar smears and construction dirt quickly, leaving the masonry clean and uniform with no acid burning or streaking.
- Concentrated acidic cleaner for new masonry surfaces subject to vanadium, manganese and other metallic stains. Is designed to simplify rinsing and reduces potential for efflorescence.
- Clean units by wetting down the surface first, before using the appropriate Sure Klean cleaner. Brush on cleaner, let dwell for 2 to 3 minutes. Rinse cleaner, scrub surface with masonry brush and rinse. Acess with heavy eating seats a woodblock or non-metallic scraper. If 600-Clean product is used, contact Reading Rock or EaCo Chem for further instructions.
- For close attention to weather and evening temperature is colder months and follow cleaner manufacturer instructions.

**SURE KLEAN® CUSTOM MASONRY CLEANER**

- Designed specifically to remove common construction and atmospheric dirt from a variety of substrates, including precast concrete, custom-masonry concrete blocks, manufactured stone and decorative veneers. This glycol-based, non-staining, mild cleaner removes heavy dirt, normal atmospheric dirt and other dirt without altering the surface texture. Light Duty Concrete Cleaner is good for low or medium dirt and exposed aggregate.

**SURE KLEAN® MNK TROL®**

- Concentrated acid cleaner for new masonry surfaces subject to vanadium, manganese and other metallic stains. Is designed to simplify rinsing and reduces potential for efflorescence.
- Specially formulated to remove common construction and atmospheric dirt from a variety of substrates, including precast concrete, custom-masonry concrete blocks, manufactured stone and decorative veneers. This glycol-based, non-staining, mild cleaner removes heavy dirt, normal atmospheric dirt and other dirt without altering the surface texture. Light Duty Concrete Cleaner is good for low or medium dirt and exposed aggregate.

**SURE KLEAN® VANA TROL®**

- Concentrated acidic cleaner for new masonry surfaces subject to vanadium, manganese and other metallic stains. Is designed to simplify rinsing and reduces potential for efflorescence.
- Strongly formulated to remove common construction and atmospheric dirt from a variety of substrates, including precast concrete, custom-masonry concrete blocks, manufactured stone and decorative veneers. This glycol-based, non-staining, mild cleaner removes heavy dirt, normal atmospheric dirt and other dirt without altering the surface texture. Light Duty Concrete Cleaner is good for low or medium dirt and exposed aggregate.

**SURE KLEAN® 600 DETERGENT**

- Concentrated detergent for new masonry surfaces subject to vanadium, manganese and other metallic stains. Is designed to simplify rinsing and reduces potential for efflorescence.
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- Concentrated acidic cleaner for new masonry surfaces subject to vanadium, manganese and other metallic stains. Is designed to simplify rinsing and reduces potential for efflorescence.
- Clean units by wetting down the surface first, before using the appropriate Sure Klean cleaner. Brush on cleaner, let dwell for 2 to 3 minutes. Rinse cleaner, scrub surface with masonry brush and rinse. Acess with heavy eating seats a woodblock or non-metallic scraper. If 600-Clean product is used, contact Reading Rock or EaCo Chem for further instructions.
- For close attention to weather and evening temperature is colder months and follow cleaner manufacturer instructions.

**SURE KLEAN® CUSTOM MASONRY CLEANER**

- Designed specifically to remove common construction and atmospheric dirt from a variety of substrates, including precast concrete, custom-masonry concrete blocks, manufactured stone and decorative veneers. This glycol-based, non-staining, mild cleaner removes heavy dirt, normal atmospheric dirt and other dirt without altering the surface texture. Light Duty Concrete Cleaner is good for low or medium dirt and exposed aggregate.
HANDLING AND STORAGE

- Protect units at all times to prevent crushing, cracking or damage.
- Handle long units at the center and both ends simultaneously to prevent cracking.
- Store units on pallets with surrounding waterproof covers.
- Do not double stack pallets.
- Handle units under cover to prevent condensation.
- Prevent contact with dirt and spattering.
- Do not use any tools or other equipment in a manner that could damage units.

REPAIR

- Repair chips and other surface damage at any time, even after mortar is thoroughly set and cured.
- Clean exposed units with appropriate SureKlean cleaner. Sandblasting or power washing can damage units. Do not use harsh cleaning materials or methods that would damage or discolor surfaces.

CLEANING

- Clean exposed units (after mortar is thoroughly set and cured). The wall should be cleaned within 1 to 2 weeks of installation for best results.
- Perform tests of cleaner on small area of 4’ x 4’ or each profile color and then repeat approved method before full cleaning. Let test area dry 4 to 5 days before inspection. Keep test area and color; then receive approval by architect before full cleaning.
- The wall should be cleaned within 1 to 2 weeks of installation for best results. After mortar is thoroughly set and cured.
- Clean exposed units with appropriate SureKlean cleaner. Sandblasting or power washing can damage units. Do not use harsh cleaning materials or methods that would damage or discolor surfaces.

- Close units by wetting down the surface first, before using the appropriate SureKlean cleaner (brush or cleaner, let dwell for 3 to 5 minutes). Thoroughly clean all surfaces with intensity and rinse after brushing. Specially formulated to remove common construction and atmospheric staining from a variety of substrates, including precast architectural concrete, custom-masonry, concrete brick, manufactured stone and decorative pavers. This general-purpose cementitious activator cleans thoroughly in one application. Can be used to clean up soil, mud, cement, dust, mortar, grime and other stains without altering the surface texture. Light Duty Concrete Cleaner adds uniformity to colors, brightens white matrices and exposed aggregate.

SURE KLEAN® LIGHT DUTY CONCRETE CLEANER

- Removes concrete splashes, excess mortar, mud, retarders, heavy efflorescence, embedded stones, dirt and dust. Easy to use, highly effective removing stains from hard-to-clean, custom masonry surfaces. It is a concentrated, non-etching acidic cleaner removes rust, mud, atmospheric dirt, mortar smears and other metallic stains. Is designed to simplify rinsing and reduce potential for efflorescence. Concentrated acidic cleaner for new masonry surfaces subject to vanadium, manganese and other metallic stains. Is designed to simplify rinsing and reduce potential for efflorescence.

SURE KLEAN® VANA TROL®

- Removes concrete splashes, excess mortar, mud, retarders, heavy efflorescence, embedded stones, dirt and dust. Easy to use, highly effective removing stains from hard-to-clean, custom masonry surfaces. It is a concentrated, non-etching acidic cleaner removes rust, mud, atmospheric dirt, mortar smears and other metallic stains. Is designed to simplify rinsing and reduce potential for efflorescence.

SURE KLEAN® 600 DETERGENT

- Specially formulated to remove common construction and atmospheric staining from a variety of substrates, including precast architectural concrete, custom-masonry, concrete brick, manufactured stone and decorative pavers. This general-purpose cementitious activator cleans thoroughly in one application. Can be used to clean up soil, mud, cement, dust, mortar, grime and other stains without altering the surface texture. Light Duty Concrete Cleaner adds uniformity to colors, brightens white matrices and exposed aggregate.

SURE KLEAN® VANA TROL®

- Removes concrete splashes, excess mortar, mud, retarders, heavy efflorescence, embedded stones, dirt and dust. Easy to use, highly effective removing stains from hard-to-clean, custom masonry surfaces. It is a concentrated, non-etching acidic cleaner removes rust, mud, atmospheric dirt, mortar smears and other metallic stains. Is designed to simplify rinsing and reduce potential for efflorescence.

SURE KLEAN® CUSTOM MASONRY CLEANER

- Derived from soluble silicate, excels in mortar, mud, retarders, heavy efflorescence, embedded stones, dirt and dust. Easy to use, highly effective removing stains from hard-to-clean, custom masonry surfaces. It is a concentrated, non-etching acidic cleaner removes rust, mud, atmospheric dirt, mortar smears and other metallic stains. Is designed to simplify rinsing and reduce potential for efflorescence.

SURE KLEAN® LIGHT DUTY CONCRETE CLEANER

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