

Emerging Opportunities 3

Hard Surface Floors & Deep Cleaning

Pre-inspection and Cleaning Procedures



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A new, FREE online training center for cleaning and restoration professionals

**HydraMaster
UNIVERSITY**



- SELECTING THE RIGHT PRODUCT
- ON THE JOB PROCEDURES
- TECHNICAL SERVICE AND SUPPORT
- BUSINESS MANAGEMENT AND MARKETING

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NEW!



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Pre-inspection and demonstration selling

Tile



Stone



Concrete



Hybrid



Luxury Vinyl Plank



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Pre-inspection and demonstration selling

- 1. Evaluate the floor by identifying pre-existing conditions.**
- 2. Increase your chances for a successful outcome by under-promising and over-delivering.**
- 3. Recognize conditions that could be created or revealed during cleaning and keep them from become problems.**
- 4. Point out repairs and corrections and floor restoration that might need to be performed that exceeds the parameters of the restorative cleaning job that. This opens up additional income earning opportunities for your company or a referral partner you outsource these jobs to.**
- 5. To be sure your scope of work and pricing accurately reflects the work you will need to perform.**

<https://hydramaster.com/pre-inspection-procedures-for-restorative-cleaning-of-stone-tile-grout-and-finished-concrete-flooring-surfaces/>



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Pre-inspection and demonstration selling

1. TYPES OF FLOORS

<https://hydramaster.com/how-do-i-know-what-hard-surface-floor-i-will-be-cleaning-floor-identification-series-part-1-of-7-parts/>

Types of Floors

- Tile: Ceramic, Porcelain, Quarry and Saltillo (Terracota) Tile
- Stone: Marble, Flagstone, Sandstone, Granite, Slate, Travertine, Serpentine
- Concrete: Finished, Polished, and Stamped Concrete
- Hybrid (Concrete and Stone): Terrazzo



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Tile & Grout Floor Surfaces



Ceramic Tile



Porcelain Tile



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Stone Floors



Marble



Flagstone



Sandstone



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Stone Floors



Granite



Slate



Travertine



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Stone Floors



Sandstone



Serpentine

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Other Indoor Stone Surfaces



Fireplaces



Countertops



Bathrooms

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Concrete Floor Surfaces



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2. COMMUNICATION

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Ask the customer

- The owner will sometimes know if they have installed natural stone or a specialty tile.
- They may have access to installation paperwork which will identify the floor for you.



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3. APPEARANCE

<https://hydramaster.com/how-do-i-know-what-hard-surface-floor-i-will-be-cleaning-floor-identification-series-part-3-of-7-parts/>

Appearance. Pay a visit to your local flooring retailer and become familiar with what various types of floors look like.

- For example, a colorful or patterned surface indicates glazed ceramic or porcelain.
- Quarry tile often has an earthy look in shades of red, gray or brown.
- Repeating Patterns - Natural stone will usually not have a pattern that repeats, but man-made tiles do. There are a few exceptions to this rule.
- Check the edges of the material – This test is not fool proof, but can sometimes help distinguish between real stone and tile that looks like stone.
 - Stone usually has a small bevel on the edge, about 1/16". Man-made tiles usually have square edges.
- Width of grout channel – The grout channel for synthetic tile will usually be 1/4". Natural stone will have a narrower channel, typically 1/8". Terrazzo and some marble or granite may have metal dividers rather than grout. Plus, remember that sanded grout usually indicates man-made tile.



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4. POROSITY

<https://hydramaster.com/how-do-i-know-what-hard-surface-floor-i-will-be-cleaning-floor-identification-series-part-4-of-7-parts/>

Porosity - Place a few drops of water on a part of the floor you have wiped clean in an inconspicuous area. Watch to see how quickly the water is absorbed.

- Porcelain and glazed ceramic will absorb so little water that you will not notice it being absorbed.
- Unsealed terracotta will absorb water rapidly.
- Stone will absorb water at differing rates darkening the stone as it soaks in. Water may take 10 minutes or longer to soak into highly polished marble and some granite.
- The presence or absence of seal will affect the absorption rate.



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4. POROSITY

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Cleaning application – an unsealed porous stone floor is more likely to have permanent stains you can't remove. In worst case scenarios the floor may permanently darken after cleaning. The stone needs to be sealed.



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5. ACID SENSATIVITY TEST

<https://hydramaster.com/how-do-i-know-what-hard-surface-floor-i-will-be-cleaning-floor-identification-series-part-5-of-7-parts/>

Acid Test - Place a few drops of HydraMaster HydraVitalize Acid Cleaner in an inconspicuous area on a spot on the floor. This is to test for sensitivity to acid

- Observe whether it bubbles, fizzes, or does nothing. If it turns white and bubbles, it is because the acid is reacting with the calcium carbonate in the floor. This indicates an acid sensitive material, likely marble, limestone, onyx or travertine.
- This test also identified terrazzo.



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5. ACID SENSATIVITY TEST

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Acid Test - Place a few drops of HydraMaster HydraVitalize Acid Cleaner in an inconspicuous area on a spot on the floor. This is to test for sensitivity to acid

- The acid reaction test can also be used to identify sanded grout.
 - Sanded ce·men·ti·tious grout will react by bubbling and fizzing.
 - Unsanded ce·men·ti·tious grout will have little reaction. Epoxy and other grouts will not react at all to the acid.



Cleaning application – you can't use an acid cleaner on a stone floor that contains calcium carbonate. Alternative for brightening is QCT with OxyBreak.



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3. Pre-inspection and demonstration selling

6. HARDNESS SCRATCH TEST

<https://hydramaster.com/how-do-i-know-what-hard-surface-floor-i-will-be-cleaning-floor-identification-series-part-6-of-7-parts/>

The Scratch (or Hardness) Test. The scratch test for stone is based on a scale developed by Friedrich Moh in 1822. It measures the relative hardness of natural stone

- It is ranked on 10 steps. There is great variation in the “steps.”
- Essentially, you are determining is what scratches what.
- Choose your tool to scratch with
 - Quartz = 7
 - Steel nail = 5.5
 - Fingernail = 2.5

Mohs Scale of Hardness		
Mineral	Scale Number	Common Objects
Talc	1	
Gypsum	2	
Calcite	3	Fingernail
Fluorite	4	Copper Penny
Apatite	5	
Orthoclase	6	Steel Nail
Quartz	7	Glass Plate
Topaz	8	
Corundum	9	Streak Plate
Diamond	10	



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6. HARDNESS SCRATCH TEST

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The Scratch (or Hardness) Test. The scratch test for stone is based on a scale developed by Friedrich Moh in 1822. It measures the relative hardness of natural stone

- Try to scratch the stone with a sharp corner of your tool
- Do the reverse - Try to scratch your tool with the stone
- By determining "What scratches what" or "What is equal" you can make judgments about hardness
- Softer stone such as travertine, marble, limestone, and slate will all scratch to differing degrees with this test procedure.
- If a floor is hard and difficult to scratch, it is probably a man-made ceramic or porcelain tile.

Mohs Scale of Hardness

Mineral	Scale Number	Common Objects
Talc	1	
Gypsum	2	
Calcite	3	Fingernail
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3. Pre-inspection and demonstration selling

6. HARDNESS SCRATCH TEST

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The Scratch (or Hardness) Test. The scratch test for stone is based on a scale developed by Friedrich Moh in 1822. It measures the relative hardness of natural stone

- 5.5 is an important dividing line. Every stone below 5.5 will show scratches. Every stone above 5.5 like granite and quartz will not. That is why they use granite for kitchen countertops.

Mohs Scale of Hardness

Mineral	Scale Number	Common Objects
Talc	1	
Gypsum	2	
Calcite	3	Fingernail
Fluorite	4	Copper Penny
Apatite	5	
Orthoclase	6	Steel Nail
Quartz	7	Glass Plate
Topaz	8	
Corundum	9	Streak Plate
Diamond	10	

Cleaning application – on softer stone, precautions must be taken to not scratch the surface of the floor when using a rotary extraction tool. If the floor did scratch when tested or has an epoxy urethane finish that will scratch, use the brush ring on your rotary extraction tool.



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7. FINISH

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Check for Floor Finish. (Sometimes called the scrape test)

The pores in stone and grout should be filled with a penetrating or impregnating sealer. This will hold out water, oils and other soils.

- Some floors may have been coated with a topical finish or wax. Finishes easily become worn in high use areas but may build up in other areas resulting in an uneven, blotchy look.
- The presence of a topical coating will make your work much more difficult!

Cleaning application – if there is floor finish on the tile, you can rest assured it is on the grout too. This will limit the cleaning process and the grout will not likely come clean until the floor finish is stripped off



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7. FINISH

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The pores in stone and grout should be filled with a penetrating or impregnating sealer. This will hold out water, oils and other soils.

- If you suspect a topical coating is present, try to scratch or scrape it off using your fingernail. A polymer finish will flake off. A wax finish will roll into a ball. A finish meant to be permanent cannot be easily removed.
- A splash of water will not penetrate the tile if a finish is present and intact. Another test is to apply some rubbing alcohol to the surface. This will penetrate many finishes leaving a white milky appearance.



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7. FINISH

<https://hydramaster.com/how-do-i-know-what-hard-surface-floor-i-will-be-cleaning-floor-identification-series-part-7-of-7-parts>

The pores in stone and grout should be filled with a penetrating or impregnating sealer. This will hold out water, oils and other soils.

- A topical coating will need to be stripped off. The process will vary according to the type and thickness of the coating. This is a very labor intensive process with grout and can keep you from getting a uniform appearance in the grout after cleaning. This should be part of your pre-cleaning inspection report to the customer
- HydraMaster HydraStone will remove some coatings, but a product intended for stripping finishes is often required. Use according to manufacturer's directions.
- We recommend against the application of topical coatings on stone or tile floors!



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Pre-Cleaning Inspection Guidelines



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Pre-Cleaning Inspection Guidelines

Grout condition/hardness/strength

- Normal cleaning pressures call for cleaning hard surface floors between 800-1200psi.
- You need to test the grout to determine if its structural integrity or hardness has been compromised
- Using a knife or scratch awl, press firmly into the grout in several inconspicuous areas.
- If the knife penetrates too easily, it may have trouble holding up against higher cleaning pressures
- The harder the grout , the higher your pressure can be (within reason). Soft or loose grout will require lower pressures (800psi max), special tools, and you should have the customer sign a liability waiver.
- Note any **cracked or damaged tile or stone**. Look for **missing, cracked and loose grout**. This may come out during the cleaning process.



Pre-Cleaning Inspection Guidelines

Moisture underneath the tiles could indicate a serious problem.

- A moisture meter can be used to compare moisture levels before and after the job.
- Excess moisture indicates a leak or other source of water under the flooring and also an increased likelihood of efflorescence.
- Checking moisture levels also indicates when the floor has returned to normal moisture content and is ready for seal.



Pre-Cleaning Inspection Guidelines

INTEGRITY of the floor and installation. Check for –

- Lippage or uneven installation of the floor with some tiles higher than others. Variations of 1/16" are acceptable. The only means of correcting lippage is to grind the affected tiles until they are all even, an advanced step way beyond the cleaning technicians role.
- Loose tiles can be located by tapping the floor with a rubber mallet or a wooden handle. A hollow sound indicates the tile is not firmly attached to the underlayment. Record the number and location of any loose tiles.



Pre-Cleaning Inspection Guidelines

Additional Pre-inspection procedures –

- Check for wax or topical coatings as discussed earlier. If there is a coating that needs to be removed, allow for the extra work in your schedule and pricing.
- Determine porosity of the stone or tile. A porous floor will require more preconditioner. The floor will absorb more water and require longer to dry.
- Porosity also influences the amount of sealer that must be applied.
- Apply less sealer than the floor will hold and you have not provided the most effective application. Apply more sealer than the floor will absorb and the excess will dry on the surface forming a milky, white haze.
- Look for signs of efflorescence – a precipitate that has the appearance of a white, chalky powder-like substance on the surface of the grout or stone or porous tiles such as saltillo.
 - Some efflorescence will look like crystals. This type is more difficult to remove.



Pre-Cleaning Inspection Guidelines

Your inspection may reveal that a job poses potential problems beyond your experience or skill level.

Experience is a great teacher, but some lessons can be very expensive. Know when to walk away from a job that could be unprofitable or holds risks you are not willing to accept.



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Drawing the line on where your company should stop: deep cleaning vs. repair, re-surface, and correction



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Restorative Stone, Tile, and Finished Concrete Cleaning



Your service choices with tile & grout

- **Deep Restorative Cleaning**
- **Deep Restorative Cleaning and Revitalizing**
- **Deep Restorative Cleaning and Sealing**
- **Grout restoration and repair**
- **Grout coloring**



Restorative Stone, Tile, and Finished Concrete Cleaning



Your service choices with stone

- **Restoratively Deep Clean**
- **Restoratively Deep Clean and Revitalizing**
- **Restoratively Deep Clean and Sealing**
- **Restorative Cleaning, Stain Removal, Sealing and Protecting, and Transforming/ Modifying (Polishing, Honing, Lippage Removal)**

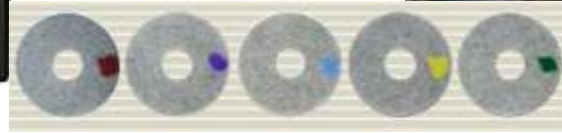


SM™ Sizing™ Diamond Abrasives



Designed for use with the Sizing™ Diamond Floor Finishing System, SM™ Sizing™ Diamond Abrasives can help turn your dull and scratched stone floors into beautiful and shiny floors.

Simply using your existing floor cleaning equipment, you can typically refresh your stone floors for less than \$2.75 per square foot versus up to \$7.00 per square foot when contracting this service.



Restorative Stone, Tile, and Finished Concrete Cleaning



Your service choices with concrete

- **Clean**
- **Restorative Cleaning, Degreasing, Brightening, and Revitalizing**
- **Restorative Cleaning and Sealing**
- **Densifying**
- **Polishing**
- **Grinding**



Restorative Stone, Tile, and Finished Concrete Cleaning



Product Application Guide						
	QCT with Oxybreak 950-155	HydraSolv 950-165	HydraStone 950-777	HydraBoost CT 950-782	HydraSeal 950-787	HydraVitalize 950-792
Stone						
Flagstone	✓	✓	★	X	★	✓
Sandstone	✓	✓	★	X	★	✓
Marble	X	✓	★	X	★	X
Limestone	X	✓	★	X	★	X
Travertine	X	✓	★	X	★	X
Serpentine	✓	✓	★	X	★	✓
Slate	✓	✓	★	X	✓	✓
Granite	X	✓	★	X	★	X
Man-Made Tile						
Ceramic	★	★	✓	★	X	★
Porcelain	★	★	✓	★	X	★
Quarry	★	★	✓	★	X	★
Salttile	★	★	✓	★	✓	★
Terrazzo	★	★	✓	★	X	★
Grout	★	★	✓	★	★	★
Concrete						
Raw/Unfinished	★	✓	✓	★	★	✓
Finished/Polished	★	✓	✓	★	✓	✓
Stamped	★	✓	✓	★	★	✓

★ = Recommended ✓ = Acceptable X = Do NOT Use

Deep cleaning procedures for each surface.



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Deep cleaning procedures for each surface.

Preparation and Set-up

- Determine all areas that need to be prepared and protected prior to starting the cleaning job. - Door ways, floor transition areas, stairwells, appliances, walls, furniture
- Always take into consideration any carpet or wood floors that are that adjoin the floor being cleaned. Protect with a double layer of plastic to prevent damage from overspray or splashes.

CAUTION! Acid cleaners can permanently damage stainless steel. Protect any stainless steel surfaces, especially appliances from spills and sprays



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Deep cleaning procedures for each surface.

Preparation and Set-up

Review the steps necessary to do the job. An ounce of prevention prevents call-backs and damaged property!

- **Make sure your customer has signed for and approved all the options you have discussed.**

- **Be realistic about extreme situations. Under-promise and over-deliver!**

**Scratches, abrasion and other indicators of wear are not removed by cleaning!
This means a clean floor may not have the same level of gloss it once did.**

- **Abrasive wear is common in softer stone.**

- **Correcting scratches requires polishing which is a separate and additional service from cleaning.**



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Tile & Grout Cleaning Procedures

Ceramic, Porcelain, Quarry, Saltillo

Pre-Cleaning Procedures

1 Identify the type of grout used. The most common type of grout used for tiles is sanded grout. This is made from a blend of Portland cement and sand. You can identify this type of grout by its sandy feel and the fact that it is usually used when grout lines are 3/16" or wider. Epoxy grout is identified by its plastic like appearance that is frequently rounded on top. Unsanded grout is usually only used with natural stone flooring. Your initial inspection of the job should include a thorough examination of the grout. Look for cracks that may be present due to movement of the substrate surface or installation or mixing issues. You should not use a high pressure rotary extraction tool on floors with loose or damaged grout. Sections of grout that have are loose or broken can be blasted out by the high pressure cleaning of hard surface rotary extraction tools and high pressure hard surface wands.

2 Always protect flooring surfaces adjacent to the floor being cleaned from splash and overspray of the cleaning solution.

3 Examine preventative maintenance procedures.

- a. The regular use of walk off mats reduces the tracking of soils from outside. The mats can remove abrasive grit from the bottom of shoes that can damage some hard surface floors.
- b. Sweep or vacuum floors prior to deep cleaning to remove particulate soils. An untreated microfiber dust mop works well for this.



4 For increased efficiency in restorative cleaning, apply tile and grout cleaning solutions cleaners with an in-line injection sprayer to take advantage of solution pressure and heat created by your high performance portable extractor or truckmount. You can also use a "pump-up" pressure sprayer, electric or battery powered sprayer. Apply in even overlapping patterns.





Tile & Grout Cleaning Procedures

Ceramic, Porcelain, Quarry, Saltillo

Daily or Periodic Maintenance and Care

1

**HydraStone
Stone & Tile
Cleaner** 1 part
solution to 32 parts
water.



2

Apply
with mop.

3

Extract cleaning solution
with extraction equipment,
auto-scrubber, wet vacuum or
clean mop.





Tile & Grout Cleaning Procedures

Ceramic, Porcelain, Quarry, Saltillo

Restorative Deep Cleaning – Heavy soil, grease and oil contamination

- 1** Mix 1 part
HydraSolv with 4
parts water into
sprayer



- 2**
Apply with sprayer
or mop

- 3** Allow several
minutes of dwell
time but do not allow
solution to dry.

- 4**
Grout lines
may need to
be agitated
with a grout
brush.



- 5** For best results, agitate and extract cleaning solution using high pressure warm or hot water from a **RX20** with a hard surface attachment, an **Evolution RX12** hard surface rotary extraction tool or high pressure hard surface wand. Your portable or truckmounted extractor should maintain a minimum of 800 psi and a maximum of 1200 psi. For more sensitive surfaces, consider using a hard surface wand or simply mop with clean water and rinse. Specialty hand-held hard surface pressure cleaning tools will be very helpful when cleaning countertops, walls, along edges, and in tight places.



- 6** For faster drying, especially in
humid environments, consider the use of
an axial, centrifugal, or downdraft air
mover after cleaning.

- 7**
After the floor has dried,
consider the need for
application of
HydraSeal to grout to
protect against staining.





Tile & Grout Cleaning Procedures

Ceramic, Porcelain, Quarry, Saltillo

Acid Cleaning – to remove soap scum, hard water deposits, urine deposits, rust, and efflorescence. Lightening and brightening grout lines

1

When cleaning with acid solutions, take special precautions to prevent splashes or spills onto metal surfaces, particularly stainless-steel appliances. Metal surfaces, especially stainless steel, may be etched by contact with acid solutions.

2

Apply HYDRAVITALIZE Organic Acid, Stone, Tile & Grout Cleaner. For normal soiling, mix 1part solution with 1 parts water. For heavy soiling, mix 1 part solution with 1 part water. For routine maintenance, mix 1 part solution with 10 parts water.



3

Apply solution generously to floor with sprayer or mop

4

Grout lines may need to be agitated with a grout brush.



5

For best results, agitate and extract cleaning solution using high pressure warm or hot water from a **RX20** with a hard surface attachment, an **Evolution RX12** hard surface rotary extraction tool or high pressure hard surface wand. Your portable or truckmounted extractor should maintain a minimum of 800 psi and a maximum of 1200 psi. For more sensitive surfaces, consider using a hard surface wand or simply mop with clean water and rinse. Specialty hand-held hard surface pressure cleaning tools will be very helpful when cleaning countertops, walls, along edges, and in tight places.



Continues





Tile & Grout Cleaning Procedures

Ceramic, Porcelain, Quarry, Saltillo

Acid Cleaning – to remove soap scum, hard water deposits, urine deposits, rust, and efflorescence. Lightening and brightening grout lines

6

When cleaning with acid solutions, it is important to neutralize the cleaning solution residue. Mix 1 part **HydraStone** with 32 parts water and apply to grout. Allow several minutes of dwell time and then rinse with water.



7

For faster drying, especially in humid environments, consider the use of an axial, centrifugal, or downdraft air mover after cleaning.

8

After the floor has dried, consider the need for application of **HydraSeal** to the grout to protect from staining.





Grout Sealing Procedures

NOTE: Reminder – for porcelain, glazed ceramic, and other non-porous man-made tiles, apply sealer to the grout lines only.

1 HydraSeal Premium Stone, Concrete and Grout Sealer is ready to use and should be applied straight. Shake thoroughly before application



2 Sealer may be applied to damp surfaces approximately one hour after water has been removed from cleaning procedures. They drier the grout, the better the penetration.



3 Apply sealer with grout line applicator. Squeegee excess onto grout and wipe up remainder off of non-porous tiles. If a white haze develops on tiles, buff off with white polishing pad and a 175 rpm rotary floor machine.





Natural Stone Cleaning & Maintenance Procedures

Flagstone, Limestone, Travertine, Marble, Terrazzo, Serpentine, Slate, or Granite

Pre-Cleaning Procedures

1 Your initial inspection of the job should include a thorough examination of the grout. Look for cracks that may be present due to movement of the substrate surface or installation or mixing issues. Sections of grout that have are loose or broken loose can be blasted out by the high pressure cleaning of hard surface rotary extraction tools and high pressure hard surface wands.

2 Always protect flooring surfaces adjacent to the floor being cleaned from splash and overspray of the cleaning solution.

3 Examine preventative maintenance procedures.

4 The regular use of walk off mats reduces the tracking of soils from outside. The mats can remove abrasive grit from the bottom of shoes that can damage some hard surface floors

5 Sweep or vacuum floors prior to deep cleaning to remove particulate soils. An untreated microfiber dust mop works well for this. **It is absolutely necessary to remove all particulate soiling from a stone surface prior to cleaning if you are going to use a high pressure rotary extraction tool to clean stone. Otherwise, the particulate soiling can become entrapped by the rotary head and severely scratch some stone surfaces, particularly polished marble.**



6 For increased efficiency in restorative cleaning, apply stone solutions cleaners with an in-line injection sprayer to take advantage of solution pressure and heat created by your high performance portable extractor or truckmount. You can also use a "pump-up" pressure sprayer, or electric or battery powered sprayer. Apply in even overlapping patterns.





Natural Stone Cleaning & Maintenance Procedures

Flagstone, Limestone, Travertine, Marble, Terrazzo, Serpentine, Slate, or Granite

Daily or Periodic Maintenance and Care

1

Mix
HydraStone Stone
& Tile Cleaner 1 part
solution to 32 parts
water.



2

Apply with
mop.

3

Extract cleaning solution
with extraction equipment,
auto-scrubber, wet vacuum
or clean mop.



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Natural Stone Cleaning & Maintenance Procedures

Flagstone, Limestone, Travertine, Marble, Terrazzo, Serpentine, Slate, or Granite

Restorative Deep Cleaning – Heavy soil, grease and oil contamination

- 1** Sweep or vacuum floors prior to deep cleaning to remove particulate soils. An untreated microfiber dust mop works well for this. **It is absolutely necessary to remove all particulate soiling from a stone surface prior to cleaning if you are going to use a high pressure rotary extraction tool to clean stone. Otherwise, the particulate soiling can become entrapped by the rotary head and severely scratch some stone surfaces, particularly polished marble.**



- 2** Mix one part **HydraStone** with 16 parts water into sprayer



- 3** Apply with sprayer or mop

- 4** Allow several minutes of dwell time but do not allow solution to dry.

- 5** Grout lines may need to be agitated with a grout brush.



- 6** For best results, agitate and extract cleaning solution using high pressure warm or hot water from a **RX20** with a hard surface attachment, an **Evolution RX12** hard surface rotary extraction tool or high pressure hard surface wand. Your portable or truckmounted extractor should maintain a minimum of 800 psi and a maximum of 1200 psi. For more sensitive surfaces, consider using a hard surface wand or simply mop with clean water and rinse. Specialty hand-held hard surface pressure cleaning tools will be very helpful when cleaning countertops, walls, along edges, and in tight places.



Continues





Natural Stone Cleaning & Maintenance Procedures

Flagstone, Limestone, Travertine, Marble, Terrazzo,
Serpentine, Slate, or Granite

Restorative Deep Cleaning – Heavy soil, grease and oil contamination

7

For faster drying, especially in humid environments, consider the use of an axial, centrifugal, or downdraft air mover after cleaning.

8

After the floor has dried, consider the need for application of **HydraSeal** should only be used marble, granite, limestone, bluestone, Saltillo, travertine, and terrazzo. Stone that is prone to efflorescence such as slate should only be sealed with a solvent impregnating sealer.





Natural Stone Cleaning & Maintenance Procedures – Flagstone, Limestone, Travertine, Marble, Terrazzo, Serpentine, Slate, or Granite

Acid Cleaning – to remove soap scum, hard water deposits, urine deposits, rust, and efflorescence. Lightening and brightening grout lines

1 Sweep or vacuum floors prior to deep cleaning to remove particulate soils. An untreated microfiber dust mop works well for this. **It is absolutely necessary to remove all particulate soiling from a stone surface prior to cleaning if you are going to use a high-pressure rotary extraction tool to clean stone. Otherwise, the particulate soiling can become entrapped by the rotary head and severely scratch some stone surfaces, particularly polished marble.**

2 **CAUTION – Acid cleaning should NOT be used on ANY stone floor that contains calcium. Acids can severely etch limestone, travertine, marble, and other stone containing calcium.**

3 When cleaning with acid solutions, take special precautions to prevent splashes or spills onto metal surfaces, particularly stainless steel appliances. Metal surfaces, especially stainless steel, may be etched by contact with acid solutions.



4 Apply **HydraVitalize Stone, Tile and Grout Cleaner**. For normal soiling, mix 1 part solution with five parts water. For heavy soiling, mix 1 part solution with 1 part water. For routine maintenance, mix 1 part solution with 10 parts water.

5 Apply solution generously to floor with sprayer or mop.

6 Grout lines may need to be agitated with a grout brush.



Continues





Natural Stone Cleaning & Maintenance Procedures – Flagstone, Limestone, Travertine, Marble, Terrazzo, Serpentine, Slate, or Granite

Acid Cleaning – to remove soap scum, hard water deposits, urine deposits, rust, and efflorescence. Lightening and brightening grout lines.

7 For best results, agitate and extract cleaning solution using high pressure warm or hot water from a **RX20** with a hard surface attachment, an **Evolution RX12** hard surface rotary extraction tool or high pressure hard surface wand. Your portable or truckmounted extractor should maintain a minimum of 800 psi and a maximum of 1200 psi. For more sensitive surfaces, consider using a hard surface wand or simply mop with clean water and rinse. Specialty hand-held hard surface pressure cleaning tools will be very helpful when cleaning countertops, walls, along edges, and in tight places.



8 For grout, it is important to neutralize the cleaning solution residue. Mix 1 part **HydraStone** with 32 parts water and apply to grout. Allow several minutes of dwell time and then rinse with water.



9 For faster drying, especially in humid environments, consider the use of an axial, centrifugal, or downdraft air mover after cleaning.





Natural Stone Cleaning and Maintenance Procedures

Flagstone, Limestone, Travertine, Marble, Terrazzo, Serpentine, Slate, or Granite

Countertop Maintenance

1 Mix
HydraStone 1 part
solution with 32 parts
water.



2
Apply in a light,
even mist using
overlapping strokes.

3
Allow solution to dwell
on surface 1-2
minutes before wiping

4
Wipe and clean surface with
a clean white cotton towel.
There is no need to rinse.





Natural Stone Cleaning and Maintenance Procedures

Flagstone, Limestone, Travertine, Marble, Terrazzo, Serpentine, Slate, or Granite

Special Issues with Stone Care and Maintenance - Efflorescence

Efflorescence is a white, powdery, blotchy or crystalline deposit on the surface of concrete, limestone, marble or masonry products. Efflorescence is due to moisture combining with calcium hydroxide in the limestone, marble or cement, and forming crystals when it reacts with the carbon dioxide in the air.

1

Light deposits of efflorescence may often be removed with a stiff brush or agitation with a white or beige floor pad under an **RX20** with a hard surface kit or a rotary floor machine. It may even wear off over time with foot traffic.

2

Heavier deposits especially with a crystalline appearance, can be dissolved using **HydraVitalize Stone, Tile and Grout Cleaner**. Mix 1 part **HydraVitalize** with 1 part water.



3

Be sure to protect surfaces not being treated. Use personal protective equipment.

4

Wipe the solution onto the affected area using a sponge or brush.

5

Rinse and extract with water. Use a minimum amount of moisture, as excess moisture can lead to the formation of efflorescence again.

6

Accelerate drying using an axial, centrifugal, or downdraft air mover after cleaning.





Natural Stone Cleaning and Maintenance Procedures – Flagstone, Limestone, Travertine, Marble, Terrazzo, Serpentine, Slate, or Granite

Special Issues with Stone Care and Maintenance - Sealer Haze

1 Stone and grout will not hold an unlimited amount of sealer. When excess sealer is applied and has nowhere to go, a smooth milky white haze can appear on the surface of the stone or grout.

2 Generally, sealer haze on stone will wear off with traffic. Sealer haze on grout can be removed by wiping with a clean towel and more sealer. After application, finish with wiping with just a towel.

3 In extreme conditions excess sealer can be removed from the stone using **HydraStone** and scrubbing.





Natural Stone Cleaning and Maintenance Procedures

Flagstone, Limestone, Travertine, Marble, Terrazzo,
Serpentine, Slate, or Granite

Special Issues with Stone Care and Maintenance - Oil Stains

1 Oil that penetrates through unsealed or poorly sealed stone will penetrate the porous surface. The best way to prevent oil based stains is by making sure the stone always stays properly sealed.

2 Oil stains that do penetrate into the stone can sometimes be removed by the application of a specialty poultice. Contact your local HydraMaster Distributor for more information on this process. [Click here](#) to find a HydraMaster distributor near you.





Natural Stone Cleaning and Maintenance Procedures

Flagstone, Limestone, Travertine, Marble, Terrazzo,
Serpentine, Slate, or Granite

Special Issues with Stone Care and Maintenance - Rust Stains

1

Surface and rust stains on stone and grout can sometimes be removed simply by the restorative deep cleaning procedures already discussed.

2

Deeper rust stains will require intensive acid cleaning procedures using **HydraVitalize** previously discussed.



3

Keep in mind that acid sensitive stone, that acid cleaning is not appropriate. For rust stains on those types of stone, **(CAUTION – Acid cleaning should not be used on ANY stone floor that contains calcium. Acids can severely etch limestone, travertine, marble, and other stone containing calcium)** a polishing or grinding process may be required.





Natural Stone Cleaning and Maintenance Procedures

Flagstone, Limestone, Travertine, Marble, Terrazzo, Serpentine, Slate, or Granite

*Special Issues with Stone Care and Maintenance -
Organic Stains (Common Household Food And Beverage Spills)*

1

These would be that remain after restorative deep cleaning.

2

KnockOut 1 will lighten or eliminate some stains. Test the stone surface or grout first for colorfastness when applying **Knock Out 1**.



3

Apply **KnockOut 1** directly to the stain.

4

Allow the solution to dry.



5

Apply **HydraSeal** to the affected area.





Concrete Cleaning Procedures – Stamped Concrete, Polished Concrete

Professional Cleaning or Restoration Contractors equipped with the proper equipment and tools have the most efficient way to clean and restore the finished look of treated, polished, or stamped concrete floors. As the soil builds up in seams, cracks, and crevices, and as the often porous concrete absorbs in oil and soil, traditional cleaning mechanisms such as “mop and bucket” or automatic floor scrubbers simply can’t restore the appearance of this fine finished concrete to an acceptable level. The heated, high pressure cleaning solution applied to the concrete surface from a high performance portable or truckmount extractor, combined with a rotary extraction tool or specially adapted hard surface wand clean the concrete surface more effectively than any other system. Add to that fact that the waste water handling and collection ability of your truckmount or high performance portable is becoming an environmental necessity outdoors, and is almost a requirement indoors for the deep cleaning of concrete surfaces. Rotary hard surface tools used in conjunction with your high performance portable or Truckmounted extractor not only speed up the cleaning and drying of a concrete floor, they also do a much better job of removing absorbed soil and oil from the porous concrete surface. Now, CleanMaster Cleaning Solutions from HydraMaster have created two comprehensive cleaning solutions specially formulated for cleaning, degreasing, and brightening concrete and tile floors utilizing the oxidizing power of hydrogen peroxide to create an activated effervescent solution that gets into every crevice, crack and pore of concrete to emulsify, dissolve and remove even the most stubborn soiling.





Concrete Cleaning Procedures

Cleaning and Brightening Concrete Floors

1 **QCT with OxyBreak** cleans and brightens concrete and grout lines without the use of harsh acids and chlorine bleaches that can damage the grout and surrounding flooring materials. It cleans, refreshes, and brightens concrete, tile and grout without leaving watermarks or residue like other cleaning chemicals can.



2 Read entire label before using. Use only as directed. Always pretest surface with cleaning solution for colorfastness prior to cleaning. Wear protective eyewear, gloves, long sleeves, and long pants while handling concentrate. Ensure work area is well-ventilated during application. Keep children and pets out of the area during application and drying.

3 Apply **QCT with OxyBreak**. For normal soiling, mix 1 part solution with 4 parts water. For heavy soiling, mix 1 part solution with 1 part water. For routine maintenance, mix 1 part solution with 10 parts water. For application through a in-line Injection Sprayer, use straight solution into sprayer bottle. Use no metering tip which results in a 1:4 mixture.

4 Apply mixed solution with sprayer evenly and liberally across surface to be cleaned. You can use a pump-up sprayer or a battery powered sprayer. If preferred, you can apply mixed solution with a damp mop, sponge, or other appropriate professional equipment. If using a mop for solution application and surface cleaning, change your mop water often to make sure that soil is not re-deposited.

5 For best results, agitate and extract cleaning solution using warm or hot water and a rotary agitation surface cleaner. For tight spaces or especially sensitive surfaces use a hard surface cleaning wand, or simply mop to rinse with clean warm or hot water.



6 When area has been rinsed thoroughly. Allow floor to dry.

7 For faster drying, especially in humid environments, consider the use of an axial, centrifugal, or downdraft air mover after cleaning.





Concrete Cleaning Procedures

Cleaning and Degreasing Concrete Floors

1 **HydraBoost CT** is a high performance, alkaline, heavy-duty concrete, tile and grout cleaner and degreaser that safely replaces mineral spirits and chlorinated solvent-based heavy-duty concrete degreasing products. **HydraBoost CT** penetrates concrete surfaces on contact to soften, lift, and remove a wide range of oils, soils, and greases.



2 Read entire label before using. Use only as directed. Always pretest surface with cleaning solution for color-fastness prior to cleaning. Ensure work area is well-ventilated during application. Keep children and pets out of the area during application and drying.



3 This product is ultra-concentrated. For normal soiling, mix 2 ounces of **HydraBoost CT** powder with one gallon of warm or hot water into a professional sprayer. For extreme soiling, mix three to four ounces of powder with a gallon of warm or hot water into a professional sprayer. For application through a in-line injection sprayer, mix 12 oz. of powder and fill container with water. Use 4:1 dilution.

4 Apply mixed solution with sprayer evenly and liberally across surface to be cleaned. You can use a pump-up sprayer or a battery powered sprayer. If preferred, you can apply mixed solution with a damp mop, sponge, or other appropriate professional equipment. If using a mop for solution application and surface cleaning, change your mop water often to make sure that soil is not re-deposited.

5 Allow for 5 -10 minutes of dwell time. For concrete, if stains have been deeply absorbed, allow 15 minutes of dwell time so the solution has time to reach into the concrete pores and crevices and the oxygen activated effervescent solution can dissolve the soiling and lighten discoloration.

6 For best results, agitate and extract cleaning solution using warm or hot water and a rotary agitation surface cleaner. For tight spaces or especially sensitive surfaces, use a hard surface cleaning wand, or simply mop to rinse with clean warm or hot water.

7 When area has been rinsed thoroughly. Allow floor to dry.

8 For faster drying, especially in humid environments, consider the use of an axial, centrifugal, or downdraft air mover after cleaning.



Solutions For Restorative Deep Cleaning of Hard Surface Floors



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HydraSolv



High Powered Tile and Grout Cleaner and Degreaser

HydraSolv™ is a high powered cleaning and degreasing agent specifically formulated for ceramic, porcelain, and quarry tile floors and their grout lines.

HydraSolv is used as a pre-spray or pretreatment on tile and grout to loosen, breakdown, dissolve, and emulsify even the grimeiest of soils.

- High powered cleaning and degreasing agent specifically formulated for ceramic, porcelain, and quarry tile floors and their grout lines.
- It can be used on residential or commercial tile floors and other hard surfaces, indoors and outdoors.
- HydraSolv is formulated to be used as a pre-treatment on floors being cleaned with an auto-scrubber or in a mop and rinse system.
- HydraSolv is also an excellent cleaner for hard surfaces that have been exposed to fire and smoke as it effectively removes soot.

Directions:

Please read the full label directions before cleaning.

As a pre-treatment/prep for tile and grout floors:

1. Pre-test all cleaning solutions in an inconspicuous area for colorfastness prior to application.
2. For maximum efficiency, apply HydraSolv with a spray bottle to take advantage of its unique penetrative and break down by 100% high performance penetrative emulsifier. You can also use a "pumpup" pressure sprayer, or electric or battery powered sprayer. Apply in even overlapping patterns.
3. For deep penetration cleaning, pre-spray with 1 part HydraSolv mixed with 4 parts hot water (25% solution) or colder with one gallon of water. For maintenance cleaning, mix HydraSolv 1 part solution to 10-20 parts water. For maintenance spraying, spray one quart water with four quarts of HydraSolv into 5 quart container.
4. Allow solution to dwell 2-4 minutes. Check solution with brushes compatible with tile and grout - keep beehive.
5. Extract the solution utilizing the RV-20 Squeegee Extractor Tool with hard surface attachments, the RV11-H Heavy Duty Hard Surface Tool, or any high pressure wand compatible with hard surface floors.
6. For floor drying, consider the use of air-dry, vented fans, or dehumidifiers to assist after cleaning.

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Need a solution for cleaning those greasy, grimy tile floors?
Time for a high powered cleaner and degreaser



Get results with HydraSolv



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Need a solution for cleaning those greasy, grimy tile floors?

get **HydraSolv**



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HydraBoost CT



High-Powered Concrete and Tile Cleaner and Degreaser/Booster Additive

HydraBoost CT is a powdered, high-powered concrete and tile and grout cleaner and degreaser designed to safely and effectively dissolve, break down, dislodge, and emulsify even the grimeiest soils.

HydraBoost CT safely and effectively eliminates even the grimeiest soils from concrete, finished concrete, and ceramic, porcelain, and quarry tile floors and surfaces.



- Alkaline cleaning agents and heavy duty surfactants are activated by the power of oxygen to allow the effervescent solution to get into every crack, crevice, and pore. It is the ideal cleaning agent for heavily soiled restaurant kitchen tile floors and other indoor and outdoor surfaces exposed to high levels of grease and oil contamination.
- HydraBoost CT will work with virtually any brush agitation system, automatic floor scrubber, or even a mop and bucket cleaning system.
- The oxygenated cleaning power also makes it an ideal boosting agent for finished and neglected carpet that has been exposed to high levels of oxygenated oils and grease. Simply add a couple of ounces to your favorite traffic lane cleaner/preconditioner.

Directions on a per-hundred-pound basis for tile and grout floors:

- Read entire label before using. Use only as directed.
- This product is also concentrated. For normal cleaning, mix 2 ounces of HydraBoost CT powder with one gallon of water in a professional sprayer. For intensive cleaning, mix two to five ounces of powder with a gallon of water in a professional sprayer. For application through a foam injector sprayer, mix 10 oz. of powder and 10 container with water in a 1:1 dilution.
- Apply HydraBoost solution with sprayer evenly and directly across surface to be cleaned. You can use a pump-up sprayer or a battery-powered sprayer. If preferred, you can apply mixed solution with a damp mop, sponge, or other appropriate professional equipment. If using a mop for routine application and surface cleaning, change your mop water often.
- Allow for 5-10 minutes of dwell time. For footprints, if stains have been thoroughly absorbed, allow 15 minutes of dwell time so the solution has time to reach into the concrete pores.
- For best results, agitate and extract cleaning solution using water or hot water and a rotary agitator/mop surface cleaner. For tight spaces or especially sensitive surfaces, use a hand surface cleaning tool, or simply mop. Rinse with clean water to hot water.
- When areas have been treated thoroughly, allow floor to dry.

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HydraBoost CT, the Ideal cleaner for real world dirty tile and concrete!
High Powered Powder Enzyme Carpet Pre-Spray

HydraBoost CT is a powder, high powered concrete and tile and grout cleaner and degreaser designed to safely and effectively dissolve, break down, dislodge, and emulsify even the grimeiest soils from concrete, finished concrete, ceramic, porcelain, and quarry tile floors and surfaces. HydraBoost CT is an economical cleaner and degreaser designed to penetrate porous surfaces and dissolve the toughest build-up of oil and grease. Alkaline cleaning agents and heavy duty surfactants are activated by the power of oxygen to allow the effervescent solution to get into every crack, crevice, and pore. It does so without the use of harsh chlorinated solvents or mineral spirits, leaving the surface squeaky clean and residue free.

100% GUARANTEE

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HydraBoost CT - The ideal cleaner for real-world dirty tile and concrete!

Powder High Powered Concrete and Tile Cleaner and Degreaser/Booster Additive

HydraBoost CT is a technical cleaner and degreaser designed to penetrate porous surfaces and dissolve the toughest build-up of oil and grease. Alkaline cleaning agents and heavy duty surfactants are activated by the power of oxygen to allow the effervescent solution to get into every crack, crevice, and pore. It is the ideal cleaning agent for heavily soiled restaurant kitchen tile floors and other indoor and outdoor surfaces exposed to high levels of grease and oil contamination. It does so without the use of harsh chlorinated solvents or mineral spirits, leaving the surface squeaky clean and residue free. The oxygenated cleaning power of HydraBoost CT also makes it an ideal boosting agent for finished and neglected carpet that has been exposed to high levels of oxygenated oils and grease. Simply add a couple of ounces of HydraBoost CT to your favorite traffic lane cleaner/preconditioner for the ultimate in cleaning power.

Try HydraBoost CT from HydraMaster

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MAXX TREME

PreSpray



Heavy Duty Powdered Pre-spray For Extremely Soiled Carpeting and Tile

Some floors are simply so dirty and heavily soiled you just have to throw the works at them. That is what MAXXTREME is all about. By using the cleaning power of alkalinity and combining state of the art low foaming surfactants and grease busting solvents, it binds, emulsifies, dissolves, breaks down and melts away the grimeiest of soils.

MAXXTREME Prespray is your FIRST CHOICE for LAST RESORT Cleaning for synthetic carpet and ceramic or porcelain tile.

It isn't just for restorative cleaning, it's for resurrection cleaning.

You know the jobs I am talking about:

- People who could easily star on the television show hoarders
- The guys and gals who rebuild their motorcycle engines... in their living room, because it is too cold outside
- That restaurant that has apparently never heard of using a degreaser in their kitchen
- Folks who don't take very good care of their floors and expect you to perform a miracle

Why a powder?

- More cleaning power packed inside
- You aren't paying to ship water
- Mixed according to directions, MAXXTREME will cost you only around 70 cents per mixed gallon

It has a ready to use pH of 11.5-12, comes packed in a case of 4 four – 6.58 jars, and is available from your local HydraMaster distributor. You might even be able to pick up a free sample at an upcoming event to try it out!



Part # 950-148-B

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MAXX TREME

PreSpray



around 70 cents per gallon, ready to use!

Heavy Duty Powdered Pre-spray For Extremely Soiled Carpeting and Tile

Some floors are simply so dirty and heavily soiled you just have to throw the works at them. That is what MAXXTREME is all about. By using the cleaning power of alkalinity and combining state of the art low foaming surfactants and grease busting solvents, it binds, emulsifies, dissolves, breaks down and melts away the grimeiest of soils.

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Q.C.T. with OxyBreak



Peroxide Activated Quarry & Ceramic Tile and Concrete Cleaner and Brightener

QCT with OxyBreak™ is a synergistic combination of specialty surfactants, hydrogen peroxide, and D-Limonene that quickly cleans and brightens the grimeiest concrete, quarry tile, and ceramic tile and grout floors, fixtures, and walls.

QCT with OxyBreak™ will work effectively with hard surface attachments, as well as rotary and stationary hard surface cleaning wands.

- With the activating and boosting effects that OxyBreak™ has on other solvents, the solution penetrates every crack, crevice, and pore to emulsify and dissolve the most stubborn grime.
- QCT with OxyBreak™ brightens grout without attacking and demineralizing. It also self neutralizes so you don't need to worry about neutralizing the grout lines after cleaning them.
- It works effectively with hard surface attachments for the RX-20 Rotary Extractor, as well as rotary and stationary hard surface cleaning wands.

Directions:
Please read the full label directions before cleaning.

1. Always pre-test all cleaning solutions in an inconspicuous area for colorfastness prior to application.
2. For general cleaning, mix 32 ounces (1 quart) of solution with a gallon of water or hot water (1 qt) into a professional spray applicator. For heavy soiling, mix 64 ounces (2 quarts) of solution with a gallon of water or hot water into a professional spray applicator. For application through a constant injection sprayer, mix one quart water with four quarts of solution into 5 quart containers.
3. Apply cleaning solution evenly in an overlapping pattern across the surface to be cleaned. You can also apply misted solution with a damp mop, sponge, or other professional application equipment. If using a mop for solution application and surface cleaning, change your mop water often to make sure that the mop is not redepositing.
4. Allow solution to dwell for 5-10 minutes. Agitate grout lines with grout brush if needed.
5. For grout cleaning and brightening results, agitate and correct cleaning solution using hot water and a rotary extraction tool. In tight spaces, use an extended surfboard and floor with steam grid, use a stationary hard surface cleaning wand or simply mop with extra water. Rinse the area thoroughly and allow to dry.
6. For faster drying, especially in humid environments, consider the use of an air seal, dehumidifier, or dehumidifier after cleaning.
7. Break sprayer used for solution application with water thoroughly after use.

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Have Tile To Clean?

QCT with OxyBreak is a Peroxide Activated Concrete, Quarry & Ceramic Tile Cleaner and Brightener



QCT with OxyBreak is a synergistic combination of specialty surfactants, hydrogen peroxide, and D-Limonene that quickly cleans and brightens the grimeiest concrete, quarry tile, and ceramic tile and grout floors, fixtures, and walls. It safely lightens and brightens grout lines without leaving water marks or residue. You get the advantage of hydrogen peroxide's brightening power without the problem because it's stabilized!



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have tile to clean?

get Q.C.T. with OxyBreak

Peroxide Activated Quarry & Ceramic Tile and Concrete Cleaner and Brightener

QCT with OxyBreak™ is a synergistic combination of specialty surfactants, hydrogen peroxide, and D-Limonene that quickly cleans and brightens the grimeiest concrete, quarry tile, and ceramic tile and grout floors, fixtures, and walls.

Part 103-3
800-103-3

1 gallon
4 x 1 Gallon

Try QCT with OxyBreak today!

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HydraStone



Heavy Duty Stone and Tile Cleaning Solution

HydraStone Heavy Duty Stone, Tile and Grout Cleaning solution is specially formulated for the heavy duty cleaning of natural stone floors and surfaces, as well as tile and grout floors and walls.

HydraStone was specifically made to safely and effectively clean stone and tile surfaces, unlike most hard surface cleaners that contain water conditioning agents and harsh solvents that can actually etch and damage fine stone.

- HydraStone is designed to deep clean and restoratively clean marble, granite, limestone, travertine, slate & sandstone as well as ceramic, porcelain and quarry tile & grout. It also works to effectively dissolve and emulsify stubborn soils on masonry and concrete.
- HydraStone is designed to be applied as a pre-spray/pre-treatment spray to loosen, dissolve, break down and emulsify built-up soiling, and to assist in stain removal. It is the ideal stone and tile cleaner for stone and tile surfaces that have been affected by smoke and soot damage following a fire or furnace puff back.

Directions:

Please read the full label directions before cleaning.

- Strip or vacuum floor prior to deep cleaning to remove particulate soils. An untreated floorboard dust may react with the acid.
- For normal soiling: Mix 1 part HydraStone with 10 parts water into sprayer. (8 ounces of solution/gallon of water). For heavy soiling, mix 1 part HydraStone with 5 parts water (16 ounces of solution/gallon of water). For maximum cleaning of counter tops and other surfaces, mix 1 part HydraStone with 12 parts water (4oz of solution/gallon of water).
- Apply with sprayer or mop.
- After several minutes of dwell time but do not allow solution to dry.
- Grout lines may need to be agitated with a grout brush.
- For hard stains, spots and extract cleaning: Apply using high pressure water or hot water from a H2O2 with a hard surface attachment, hard surface rotary extraction tool or high pressure hand surface wand. Your portable or truck-mounted surface should maintain a minimum of 300 psi and a maximum of 1,000 psi. For most sensitive surfaces, however, using a hard surface roller or squeegee may yield clean water and rinses.
- For faster drying, especially in humid environments, consider the use of an axial, centrifugal, or downward air mover after cleaning.
- Once the floor has dried, consider the need for application of a hydrophobic to protect the surface.

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Leave no stone unturned
or uncleaned!

Use HydraStone to effectively clean stone, tile and grout.



HydraStone Heavy Duty Stone, Tile and Grout Cleaning Solution is specially formulated for the heavy duty cleaning of natural stone floors and surfaces, as well as tile and grout floors and walls. HydraStone contains no harmful conditioning agents that are commonly found in hard surface cleaners which can harm fine stone surfaces.



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32oz per 16.9 fl. oz. 1.2-1.5, 4 x 1 Gallon

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HydraVitalize



Acid Stone, Tile and Grout Revitalizing & Renewing Cleaning Solution

HydraVitalize is used to renew and restore stone, tile and grout that has not responded effectively to other types of cleaning, or that has been exposed to a build-up of hard water spots, mineral, grout haze, soap scum, petroleum deposits, dirt and efflorescence. The acid cleaning action revitalizes and renews the appearance of ceramic, porcelain and quarry tile, as well as grout, granite, slate and sandstone.

HydraVitalize breaks down and removes scale and soap scum, removes the white haze caused by efflorescence and removes the oxidized and imbedded soil from porous grout.

- The acid cleaning action revitalizes and renews the appearance of ceramic, porcelain and quarry tile, as well as grout, granite, slate and sandstone.
- It uses a safer and milder proprietary acid than conventional acids so it emits fewer vapors and requires fewer precautions.
- This acid-based cleaner will etch or damage most marble, limestone and travertine surfaces, so only use on recommended surfaces and always pre-test in an inconspicuous area first.

Directions:

Read entire label before using. Use only on floors. Before cleaning, remove all surfaces are swept or vacuumed to remove loose debris. Acid Cleaning of tile and grout. When cleaning with acid solutions, never splash solutions to prevent splashes or spills onto metal surfaces, particularly stainless steel appliances.

1. Apply HydraVitalize. For normal soiling, mix 1 part solution with two parts water. For heavy soiling, mix 1 part solution with 1 part water. For routine maintenance, mix 1 part solution with 10 parts water.
2. Apply solution generously to floor with sprayer or mop.
3. Grout lines may need to be agitated with a grout brush.
4. For best results, agitate and oxidized cleaning solution using high pressure water in test water from a 1000 psi. For best results, agitate and oxidized cleaning solution using high pressure water in test water from a 1000 psi. For best results, agitate and oxidized cleaning solution using high pressure water in test water from a 1000 psi.
5. For grout, it is important to maintain the cleaning solution residue. Mix one part HydraVitalize in HydraVitalize with 22 parts water and apply to grout. Allow several minutes of dwell time and then rinse with water.
6. For faster drying, especially in humid environments, consider the use of a fan, dehumidifier, or blow-dryer or remove after cleaning.
7. After the floor has dried, consider the need for application of HydraSeal to grout surfaces to protect the grout.

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HydraVitalize is used to renew and restore stone, tile and grout that has not responded effectively to other types of cleaning, or that has been exposed to a build-up of hard water spots, mineral, grout haze, soap scum, petroleum deposits, dirt and efflorescence. The acid cleaning action revitalizes and renews the appearance of ceramic, porcelain and quarry tile, as well as grout, granite, slate and sandstone.

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HydraSeal



Premium Stone, Concrete, and Grout Water Based Sealer

HydraSeal Premium Stone, Concrete, and Grout Water Based Sealer preserves and protects the investment in tile floors and surfaces by providing advanced penetrating bonded protection at the molecular level.

Penetrates deep into porous surfaces and protects against water and oil based spills and stains, chemical degradation, biological growth, and efflorescence, while preserving the natural look of the surface, and not affecting slip resistance.

- HydraSeal can be used as an interior or exterior treatment.
- HydraSeal is the ideal product when applying a clear sealer to grout since it can be sprayed or sponged onto grout lines, and squeezed or mopped off non-porous ceramic and porcelain tile, and stone, decreasing the application time.
- HydraSeal preserves the natural look of the surface, and does not affect slip resistance during cleaning.

Directions:
Read entire label before using. Use only as directed. Visit our website for complete pre-treatment precautions. Before applying sealer, surface must be clean.

Sealing precautions:

1. Intended for porous, grouted concrete, and other masonry, non-porous tiles, apply sealer to the grout lines only.
2. HydraSeal Premium Stone, Concrete and Grout Sealer is ready to use and should be applied as directed. Shake thoroughly before application. Coverage should be between 800 to 1200 sq. ft. per gallon depending on the porosity of the surface and the coverage required (grout only or entire surface).
3. Sealer may be applied to dry surfaces approximately one hour after water has been removed from cleaning procedures. They dry to the touch, but before the penetration.
4. Apply sealer with grout line applicator. Spray/sealer evenly onto grout and wipe immediately off of non-porous tiles. If a white haze develops on tiles, buff off with white polishing pad and a 175 rpm mixing floor machine.
5. For entire floor application (stone or concrete), spray or roller than spread with a brush with synthetic bristles. A perfected application method is to liberally apply an even coat using a paint roller or brush. Allow sealer to penetrate the surface for 15-30 minutes. During this time, distribute water over entire area to ensure even penetration. Remove excess moisture by wiping entire surface thoroughly with clean, dry towels. A second coat may be necessary after 1 hour. Place drop of water on newly sealed grout, concrete, or stone and wait 2-4 hours on grout, concrete, or stone. If it does absorb readily, then a second coat is necessary.

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