Data Spec Sheet

1. Product Name
Classic Stone

2. Manufacturer
Classic Stone Limited -
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www.classicstone.co.nz

3. Product Description

BASIC USE
Classic Stone products are intended for interior or exterior non-structural use, as a lightweight veneer facing on masonry surfaces for architectural aesthetics. Classic Stone is cast in moulds from hand selected natural stones and coloured & textured to replicate the exact qualities of natural stone. These products are suitable for use on residential and commercial projects of many types.

COMPOSITION & MATERIALS
Classic Stone products are cast in moulds using a unique process that replicates existing colours and textures with meticulous detail. Each colour and texture has its own blend of ingredients, including Portland cement, lightweight aggregates and iron oxide pigments, producing the look and feel of natural stone.

TYPES
- Stone veneers
- Capping/Sill stones
- Corner stones

Lintels

WEIGHT
Depending on stone profile chosen, the weight per m2 can range from 40 - 50 kg/m2.

Profiles (FINISHES & TEXTURES)

Classic Stone currently has 9 stone profiles.

• River Stone	(Th–35mm, weight-45kg/m2)
• Canterbury River Stone	(Th-35mm, weight-45kg/m2)
• NZ Basalt	(Th–35mm, weight-45kg/m2)
• Mountain Shale	(Th-45 to 60mm, weight-45kg/m2)
• Colonial Schist	(Th-35mm, weight-45kg/m2)
• Southern Lakes-SmartFit	(Th-30mm, weight-40kg/m2)
• Southern Ledgestone	(Th-30mm, weight-45kg/m2)
• High Country Boulder	(Th-35mm, weight-45kg/m2)
Mountain Ledgestone	(Th-50mm, weight-50kg/m2)

COLOURS

Classic Stone uses an integral stone base colour throughout the mix to give durability and quality.
The veneer stone then has additional colouring applied using some of the best artificial rock colouring systems known. These systems have been used throughout America for the last 30 to 40 years with no adverse colour deterioration. We produce our stone with slightly sharper colours than needed when new, with a little time they will weather back to a natural shade.

Note - Classic Stone products are durable and colourfast in interior and exterior applications.

LIMITATIONS

Classic Stone products should not be assumed to add to the load bearing capacity of a wall. Product should not be used below water level, such as in swimming pool liners. Chlorine and other chemicals may discolour the Classic Stone product and other masonry materials. The Classic Stone wall veneer should not be used for paving applications.

4. Installation

METHODS

Classic Stone can only be installed by approved installers where the application is onto a building. This is to ensure that all components of the installation meet NZ building code requirements etc.
However, landscape applications such as stand-alone columns, retainer walls, planter bins etc, maybe installed by the purchaser. Classic Stone will provide installation instructions for the DIY

Classic Stone is a lightweight decorative veneer. It has been designed to adhere readily to a code compliant masonry substrate cladding. Classic Stone **must** be applied with an approved Classic Stone adhesive system.

SUBSTRATES

It is the installer's responsibility to ensure that:

- The substrate in question is an approved Classic Stone substrate: either **Brick** (for interior & landscape applications only-supported by 'In service history') or the following: **Innova Stonesheet, Concrete Block and Concrete Tilt-up panel** (all supported by an independent appraisal)
- Substrates have been installed correctly, refer to the Classic Stone Technical Manual
- All substrates should be thoroughly cleaned to remove contaminants, especially moulds oils and for all existing coatings such as paint etc.

Substrates are in a good condition to promote complete bonding of stone to the substrate. Tests should always be done on tilt slab concrete or other substrates which may have oil residues. When water is applied to the substrate no beading of water droplets should be present. If there is any doubt, check with substrate manufacturer and do small stone bonding tests prior to complete install. Substrates may be water blasted and cleaned with 20% hydrochloric acid wash and detergents to remove residues.

WATERPROOFING SUBSTRATES

In order to meet the NZ Building Code requirements, particularly regarding section E2 - External Moisture, waterproofing is best achieved by first waterproofing at the substrate level.
Equus Chevaline Coverall, (an approved Classic Stone water proofer), is a thixatropic waterborne acrylic system with in-built flexibility and durability and has specific early-water resistance and high adhesion.
Concrete, brick and fibre cement surfaces: Surface of substrate to be cleaned of any contaminants or coatings (e.g paint) and then an application of One (1) coat of **Equus Coverall/**water 50/50 brushed on at 5-7 sqm/litre.
The substrates will then need a bonding agent to be applied to ensure good adhesion with the plaster coat that follows.

BOND COAT

The bond coat is one of the most important parts to the whole system. It is essential to ensure that this coat is applied **at least 24 hrs** in advance of the stone being laid. Ensure that the coat is extremely hard and seemingly impossible to remove without mechanical assistance. The Bond Coat application should be consistent in its coverage and cover most of the visible substrate with a coarse texture. Please refer for more detail to the install DVD.

Adhesive Bond Coat Mix

1 part Mortar sand
1 part Cement
Mix 60% Primal/water
Oxide as required

Mix to a smooth creamy consistency. Apply with brush or hopper gun. Ensure that all work is thoroughly masked off as splatter is near impossible to remove. We would recommend all BGC sheets be pre sealed with Coverall and Bond coated prior to sheet installation. (saves lots of time and mess, contact Classic Stone for further information)

Classic Stone Adhesive Mortar

1 2 Litres Cement
2 6 Litres Selected Mortar sand (All sand grades must be sent to Classic Stone for testing.)
3 Classic Stone adhesive –

A. 50% Primal MC 76LOR to 50% water premixed. Mix to desired consistency.

4 Oxide as required. (Keep mixes consistent)

PREPARATORY WORK

Spread out Classic Stone products at the jobsite so there is a good variety of sizes, shapes, and colours to choose from. Plan some variety and contrast in the overall design. Use small stones next to large ones, heavy-textured pieces next to smooth and thick stones next to thinner ones. Mixing Classic Stone products from different pallets during application will allow a desirable balance of individual stones on the finished project. Tinting mortar complements the colour of the stone being installed. This will greatly enhance the appearance of the finished installation. Regular mortars can be tinted to complement Classic Stone products using iron oxide pigments.

APPLY STONE

Press the stone firmly into place with a gentle wiggling motion, to promote bonding. Never tap the stone into place, as it could break the bond of previously laid stone. Adequate mortar should be applied to the stone & substrate to provide a complete coverage so as to ensure a strong adhesion and to prevent water intrusion and thus also help prevent freeze/thaw issues.
Always install corner stone's first. Apply remaining stones by working from the bottom up or top down. Mortar joints between stones should be as tight and uniform as possible. Be extra careful to keep your lines straight and level.

DRESS STONE

When mortar joints are firm use a wooden or metal striking tool and remove excess mortar. At the same time, firmly press mortar into the joints so edges are thoroughly sealed. Using a whisk broom, brush mortar joints until smooth and all loose mortar has been brushed away. Brush off any loose mortar on face of stones. **Never** let mortar set overnight before brushing joints.

CONTROL JOINTS

Where control joints are present, the joint itself **must be** waterproofed with a suitable waterproof membrane (in accordance with NZ Building Code) so as to adequately protect the substrate. The stone should be overlapped over the joints from either side, with not more than 20% of the stone crossing the control joint. An air cavity is thus left in behind to form the slip joint, to allow any moisture to drain and allow for any movement from substrates.

WEATHER CONDITIONS

If stone is being applied in hot or dry weather, the back of each piece should be moistened with a fine spray of water or a wet brush so as to adequately prevent excessive absorption of moisture from the mortar. If being installed over concrete, masonry or scratch coat substrate, the substrate surface area should also be dampened before applying mortar. Applications should be protected from freezing as mortar will not set up properly under such conditions. Do not use antifreeze compounds to lower the freezing point of mortar. For further reference see BRANZ's

COMPLETION
Clean any remaining grout off stone with a dry brush. Use compressed air to blow away any dust left from cutting with a diamond blade. This dust can stain in some circumstances.

SEALING
Classic Stone veneer products come pre-sealed, and must always be resealed with Classic Stone's **Stone Shield** water proofing sealant for all Cladding situations as per the BEAL Appraisal. Apply the Stone Shield sealer to the entire stone and pointing. Follow the directions provided by the manufacturer.
Typically, those areas of the building prone to greater weathering should be resealed more often (refer to manufacturers specifications).

To ensure complete coverage, only one coat is required, and apply to both stone and pointing. With the exception of coastal properties and high rain fall areas, resealing should be done every five to seven years.
Coastal properties and high rain fall areas should be done (in conjunction with annual inspections) every three to five years.

CAUTION !!!
Sealing should not be attempted in windy weather. Over drift of spray may cause extreme damage to any glass surfaces, typically windows. Use only very low pressure sprayers, E.g. Garden hand sprayers. Always mask off tricky areas near to glass or other surfaces. Spray drift may travel long distances so be careful.

Note
Installers must have watched and refer to the Classic Stone installation videos for specific install techniques.

Classic Stone has been installed in both landscape & building applications in locations that experience extreme weather variations between seasons e.g. Queenstown and Lake Tekapo, for some years. Over this time Classic Stone has performed as expected, with no deterioration caused by weather extremes such as freezing or high heat. (Refer to BEAL appraisal)

5. Availability & Cost
Classic Stone products are available via our installers or direct if no installer exists. If large orders are placed e.g. house lots, an allowance for curing time of 6 - 8 weeks may need to be made.

COST
These products are priced on a square or lineal meter basis. Jobsite delivered cost will vary depending on distance from the manufacturing plant.

6. Maintenance
Most applications require little maintenance. Exterior applications where excessive dust or dirt accumulates should be washed down with water occasionally. Repeated applications of a water based sealer should be applied as per the recommendations of the manufacturer – approx. every six years.
An annual inspection of stone and substrate is advisable especially with regards to possible building movement.

CLEANING

Use detergent and water with a soft bristle brush. Do not use a wire brush as it will cause damage to the surface. Rinse immediately with fresh water. Do not attempt to clean using acid or acid based products. A low pressure power washer may be used.

SCUFFING

Scuffing occurs on all natural stone. Occasionally, some scuffing will occur on the surface of Classic Stone products. Some scuff marks can be removed by cleaning as described above.

EFFLORESCENCE

On rare occasions, efflorescence may occur on all masonry products. Most efflorescence wears off naturally over time. For more difficult efflorescence problems please contact your local distributor.

7. Limited Warranty

Classic Stone Limited provides a 15-year (non – transferrable) product Limited Warranty on its decorative veneer products from purchase date (any labour content involved is not covered under the manufacturer's warranty), providing the buildings/structures used complied with the NZ Building Code and the installation was performed by an approved Classic Stone installer.

This warranty does not cover damage caused by:

- Incorrect installation
- Settlement through building, wall or foundation movement
- Discolouration or damage due to contact with foreign objects, Chemicals, Paint, Staining, and/or oxidation
- Steam Cleaning or Water Blasting
- Wilful abuse or negligence
- Not following the Management and Maintenance requirements

Note.

A copy of the Classic Stone full Limited Warranty can be obtained by calling 0800 278 663