

EXTRAORDINARY PAVING STANDARDS

UrbanStone's paving range and flexibility of manufacturing options have created an extraordinarily high paving standard which is rapidly becoming the Australian benchmark.

The total landscaping concept UrbanStone has developed provides the community with the opportunity to enjoy a very different lifestyle, in a more aesthetically pleasing and user-friendly environment.

Architectural requirements have been accommodated in all UrbanStone's paving and landscaping accessory designs producing an exceptionally well engineered range of products manufactured to withstand the rigours of our harsh Australian environment.

Extensive research into aggregate availability and suitability for paving applications has resulted in UrbanStone's exceptional and extensive commercial colour ranges, in various textures.

Consistency of mix, design, colour and texture are of paramount importance and it is for this reason that UrbanStone has become the preferred supplier to Australia's most prestigious projects.

In short, UrbanStone's innovation and commitment to investment in the latest manufacturing and finishing technology ensures the superior, enduring quality of our product.

By specifying UrbanStone you are giving your project the ability to achieve the new standard in creative landscaping.

Silvergrey



PCC



Casino Grey



Albany Grey



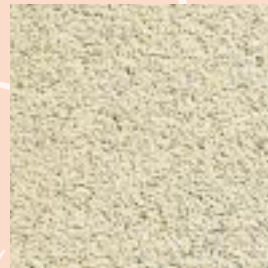
Gunmetal



Golden Gunmetal



Granite Cream



Ochre



Topaz



Ivory



Granite Bronze



*(HONED)
New Amber*



Colours are photographic representations only.
Actual colour and finish should be judged from finished product samples.

PRODUCT RANGE

An extensive product range of paving, paving accessories, streetscape furniture and specialty items guarantees the completeness of UrbanStone's fully integrated landscaping system.

Unlimited combinations of natural stone and coloured matrix in variable shapes, sizes and finishes combine to give a limitless range of options for any design application.

MATERIALS SPECIFICATION

UrbanStone's "Product and Materials Specification" will give specifiers and designers alike the confidence to specify materials of exceptional quality with lasting durability for any application (Refer to UrbanStone's Material Standards for information on Product Specifications).

MANUFACTURING

UrbanStone's manufacturing process is fully automated and computer controlled throughout the production process.

Automated aggregate batching via computerised load cell weighing ensures that every batch is accurately controlled and corrected for variations in aggregate specific gravity and moisture, thus producing exceptional consistency in the volumetric batching process.

Volumetric dosing of the controlled wet-mixed concrete into UrbanStone's unique moulding system, together with high frequency vibration systems, guarantees dimensional accuracy and generates an end product with exceptional density.

Controlled curing combined with a specialised palletised storage system, enhances the quality of the end product.

UrbanStone's palletising, packaging and transport systems ensures the product is delivered to site safely and in pristine condition.

TESTING INFORMATION

Typical test results on UrbanStone pavers are published in the "Testing Information" section of the UrbanStone Catalogue.

These results are indicative of nominal results that reflect the performance of UrbanStone's quality product when tested in accordance with the current Australian Standards.

Individual test results are also available for further reference. In addition, individual testing for specific projects may be arranged on request.

Slip-Resistance, Freeze Thaw, Resistance to Salt Attack and Total Absorption are only a few of the test procedures applied to UrbanStone pavers.

Quality is assured by utilising only the best of raw materials to obtain the sound compressive and transverse concrete strength required in today's competitive markets.

DESIGN CONSIDERATIONS.

There are many issues that need to be considered when contemplating integrating UrbanStone products in a design theme.

The ultimate aesthetic appearance and project functionality will depend largely on how the UrbanStone products are utilised and what attention is paid to detail within the design.

To assist in this regard, refer to UrbanStone's "Design considerations for the specification and installation of segmental paving". Fundamental issues raised in this guide document will give a good basis upon which to begin an exceptional design.

PAVEMENT INSTALLATION

UrbanStone paving modules may be used in many and varied applications. The installation technique adopted however is of paramount importance and should be given close consideration when writing specifications.

Both rigid and flexible installations of UrbanStone pavements will perform more than adequately providing proper design, meticulous detailing and sound installation procedures are utilised.

In addition, strict installation controls must be enforced to ensure an exceptional finish is obtained.

UrbanStone's Practical Guides for the installation of segmental paving in a 'rigid' and 'flexible' application should be consulted to ensure sound design, good specification and excellent installation is achieved.

USE OF EXPANSION JOINTS IN SEGMENTAL PAVING

The use of segmental paving in walkways and roadways does not necessarily negate the use of expansion jointing in the pavement.

In theory, a segmental pavement installed in a flexible application does not need any expansion joints to be left in the pavement to allow for expansion and contraction of the paving units themselves.

However, as the individual unit dimension of the pavement is increased, the number of joint gaps in the pavement will decrease proportionally.

For this reason, special attention needs to be given to this area of pavement design and thus there are special situations where it is advisable to allow for expansion joints to be installed in the pavement.

For further information, reference should be made to, "Design considerations for the specification and installation of segmental paving" in the UrbanStone Catalogue.

EFFLORESCENCE

Efflorescence can best be described as, "a passing nuisance".

Invariably these unsightly deposits will be blamed on the concrete manufacturer, unjustifiably in most cases, because this so called efflorescence is a natural phenomenon.

Efflorescence should be seen for what it is, a sign of life from a product made of natural raw materials.

For more information on efflorescence and its occurrence, prevention and treatment, refer to the relevant section in the UrbanStone catalogue.

SALT ATTACK

When concrete is repeatedly wetted by salt water solution, with alternate periods of drying during which pure water evaporates, some of the salts dissolved in the salt water solution are left behind in the form of crystals in the concrete pores and on the surface of the concrete unit.

These salt crystals re-hydrate and grow upon subsequent wetting and thereby exert an expansive force on the surrounding hardened cement paste within the concrete unit.

This rapid growth causes the concrete paste surrounding the crystal to 'burst', exposing the aggregate in the concrete masonry unit.

This phenomenon is known as Salt Attack and must be given careful consideration when installing concrete pavers in areas that may be subjected to it.

Utilisation of a penetrating sealant in areas such as splash zones around salt-water swimming pools, may be of great advantage in this regard.

For further information, reference should be made to the section on "Salt attack on concrete masonry segmental paving" and "The use of sealants on UrbanStone products" in the UrbanStone Catalogue.

CLEANING OF URBANSTONE PAVERS

Soiling of UrbanStone pavers can be unsightly. It is useful to differentiate between soiling that is generated during construction or installation, and that generated during normal service.

In general, prevention is better than cure, and regular maintenance and cleaning is far better than occasional drastic cleaning. It is always advisable to establish a good maintenance and cleaning regime immediately after the completion of the UrbanStone pavement installation. To appreciate fully the design considerations and maintenance hints that will assist in keeping your UrbanStone pavescape looking pristine at all times, reference should be made to the section on "Maintenance and cleaning of UrbanStone concrete pavers" in the UrbanStone Catalogue.

SEALING OF URBANSTONE PRODUCTS

The question of sealing UrbanStone is often raised and usually relates to three issues, namely assisting in the cleanliness of the paving and the prevention of staining, the prevention of water penetration, particularly where there is the possibility of salt attack and, as an aesthetic consideration, to enhance the appearance of the product.

Whilst there are many proprietary brands of concrete masonry sealers available, they generally fall into three basic categories; acrylic emulsions, silicone based water repellents and solvent based penetrating sealants.

The choice of sealant for the specific application should be carefully considered, as the paver colour, gloss and certain performance aspects of the paving may be affected by this application, particularly the skid resistance. For further information, reference should be made to the section on "Sealing of UrbanStone Products" in the UrbanStone Catalogue.