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Technical Data Sheet

Uni-Rock

Blended dry powder for steel trowel applied smooth concrete-like finishes

Description

Unitex® Uni-Rock is a cementitious blended powder that when mixed thoroughly with water, can be trowel applied in thin layers over rendered walls to produce a smooth, concrete-like applied effect finish.

Uni-Rock is available in three “concrete-like” shades: grey, white and “off-white”.

Unitex® Uni-Rock is based on a blend of cements, special fillers and chemical additives to provide a material with good workability whilst minimizing water demand. Uni-Rock adheres very well to rendered surfaces and when dry, provides a strong, durable, lightly polished finish.

Uses

Uni-Rock is formulated to produce a uniform surface above a dried, existing rendered finish if a change in substrate appearance is desired.

As a skim coat over dry Unitex Polymer Render (with 5-10 % added Portland cement), Uni-Rock does not show the water sensitivity that can often be encountered with plaster, cement or lime based compounds.

For a superior finish, it is recommended that a skim coat of Unitex® Polymer Render be applied over the rendered wall. This must be allowed to thoroughly dry for 2-3 days until thoroughly dry to prevent shrinkage cracks, and then a skim coat of Uni-Rock to a maximum of 1.5 mm be applied. After partial setting of the coating, finishing with a steel trowel or sponge to a smooth finish is recommended. Trowelling and finishing should be applied with a minimum of “working” otherwise moisture can be brought to the surface which can lead to poor visual effects.

Application Instructions

Substrate condition

Unitex recommends that Uni-Rock should be applied over dry Unitex Polymer Render (with 5-10 % added Portland cement) on walls. Uni-Rock can be applied to a depth of 1-1.5 mm.

Ensure that the surface is clean and dry. All surfaces must be free of grease, oil, mould, dirt, dust, release agents, bond-breakers or other contaminants that may interfere with adhesion. Surfaces consisting of freshly applied cementitious renders ought to be left for a minimum of 28 days (to allow the cement to fully cure) before Uni-Rock is applied.

Note: A test area of the complete system must always be provided by the applicator for the Builder’s and Specifier’s approval.

Weather Conditions

If temperatures are less than 10°C or greater than 35°C, Uni-Rock must not be applied to a wall.

Freshly applied Uni-Rock must be protected from rain, other sources of moisture and frosts for at least 48 hours.

Mixing

As a cementitious blended powder, Uni-Rock must be thoroughly mixed with clean, potable water to an homogenous slurry prior to application. As the cement cures, the slurry will get thicker with time until it is no longer useable. The pot life is about 3 hours in ambient conditions.

Mechanical stirrers are recommended for mixing powder into water. Whilst the water content and flow of the slurry should vary slightly for different weather conditions (try for a little more water on days of higher temperatures), a good guide is to use 3 volumes of Uni-Rock to one volume of water. Uni-Rock must always be mixed into water: not the other way around. Note that there is a useable application time (pot life) of about 3 hours before the slurry is no longer workable. Addition of too much water will result in shrinkage and cracking.



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Application

Uni-Rock can be used to fill cracks and voids on rendered walls; in which case it is applied directly onto the rendered wall. For a superior smooth finish, the rendered wall must be filled and sealed with a skim coat of Unitex® Polymer Render and allowed to dry thoroughly (less than 15 % Wood Moisture Equivalent (WME) as measured on a Moisture Meter (such as Protimeter) before Uni-Rock is applied. Use a steel trowel to coat Uni-Rock slurry over rendered walls. Buff to a smooth finish with a steel trowel applied in a light, circular motion after the coating has partially set. Finish to a smooth surface effect. Uni-Rock can also be sponge finished but care should be taken not to “work” the surface too much as water may be drawn to the surface from beneath and an unsightly finish may result.

Curing

Uni-Rock is an air dried product whereby water leaves the coating and the cement cures and hardens over the following weeks. It is important that the coating is protected from rain, moisture and cold conditions for the first 3-5 days after coating and from impact damage for at least 28 days.

Estimating

Supply

Uni-Rock Grey	15 litre pail
Uni-Rock White	15 litre pail
Uni-Rock Off-White	15 litre pail

Coverage Approximately 15-18 m² at 1 mm thickness

Shelf Life

This product contains cement and must be kept dry. A shelf life of 6 months is to be expected.

Product Safety

See SDS

This material is hazardous according to the health criteria of Safe Work Australia



Signal Word

Danger

Hazard Classification

Skin Corrosion/Irritation – Category 2
Serious Eye Damage/Irritation – Category 1
Specific Target Organ Toxicity (Single Exposure) – Category 3

Hazard Statements

H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation

Prevention Precautionary Statement(s)

P102	Keep out of reach of children
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- P103 Read label before use
P261 Avoid breathing dust
P264 Wash hands, face and all exposed skin thoroughly after handling
P271 Use only outdoors or in a well ventilated area.
P280 Wear protective clothing, gloves, eye/face protection and suitable dust mask

Response Precautionary Statement(s)

- P101 If medical advice is needed, have product container or label at hand
P312 Call a POISON CENTRE or doctor/physician if you feel unwell
P302+352 IF ON SKIN: Wash with soap and water
P362 Take off contaminated clothing and wash before reuse
P332+313 If skin irritation occurs: Get medical advice/attention
P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P314 Get medical advice/attention if you feel unwell.
P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P310 Immediately call a POISON CENTRE or doctor/physician

Storage Precautionary Statement(s)

- P405 Store locked up
P403+233 Store in a well ventilated place. Keep container tightly closed

Disposal Precautionary Statement(s)

- P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

Poisons Schedule (Aust): Not applicable

Dangerous Goods Classification

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail".

Manufacturer's Details

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This information contained herein relates only to the specific material identified. Unitex Granular Marble Pty Ltd believes that such information is accurate and reliable as of the date of this Technical Data Sheet, but no representation, guarantee or warranty, expressed or implied, is made to the accuracy, reliability or completeness of the information. Unitex urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.