

PHYSICAL PROPERTIES

SOLIDS CONTENT	.....	100%
MIX RATIO	.....	Kit
COVERAGE RATE	.....	1/2" 72ft ²
<small>*Depends on system depth</small>		5/8" 42ft ²
		7/8" 30ft ²
APPLICATION TEMP	.....	41°F-90°F
POTLIFE	.....	20 Minutes
<small>1 Gal mass @ 75°F</small>		
DRY TIME	.....	2-3 Hours
<small>@ 75°F</small>		
FULL CURE	.....	24 Days
PACKAGING	.....	237lb Kit

MECHANICAL PROPERTIES

TENSILE STRENGTH (BINDER)

7 Days 3.01 N/mm²
 3 Months 5.38 N/mm²

ELONGATION (BINDER)

7 Days 55.90%
 3 Months 36.33%

CHEMICAL RESISTANCE

- Gasoline
- Diesel
- Oil
- Cleaning Chemicals

Refer to Optus Technical Bulletin 9: Chemical Resistance Guideline.

PRODUCT DESCRIPTION

Pebbletone is a flexible, color and light stable, polyurethane resin bound paving system. It has been designed to enhance the visual appeal of Pool Decks, Driveways, Patios, Footpaths, Pedestrian Precincts, Schools, Commercial and Retail premises. Heritage sites, and Tree Pits. Utilizing natural and decorative aggregates it transforms tired looking concrete and asphalt surface overnight.

TYPICAL USES

- Pool Decks
- Patios
- Cart Paths
- Tree Pits
- Driveways
- Walking Paths

BENEFITS

- Hardwearing and capable of withstanding vehicular and pedestrian traffic
- Rapid Installation and fast cure, ensuring areas are returned to use within 3 hours at 68°F
- Excellent adhesion to suitable prepared substrates
- Flexible and durable giving long life
- Quick, easy, and cost effective application
- Multiple cure speeds available for varying temperatures

SYSTEM DEPTHS

- 1/2" Pedestrian Use Only
- 5/8" Foot Traffic & Light Vehicular Traffic
- 7/8" Heavy Traffic/Commercial Application

- Solvent-Free
- Cold applied polyurethane system applied by trowel
- Low temperature cure, down to 41°F
- Seamless and Aesthetically pleasing
- Permeable
- Cures to an inert finish. **See Optus Technical Bulletin 2: VOC Compliance.**
- Available with Biocote® antimicrobial technology. Inquire with an Optus Resin Representative for details.

COLORS



Mojave Desert



Black Canyon



Alpine Granite



White Pearl



Venetian Bronze



Cape Cod

LIMITATIONS

- Higher temperatures will result in shortened working times and faster drying times.
- Natural stone Color may vary due to batch-to-batch variation
- Use Primer system when applied directly to concrete.
- Will not bridge cracking or heaving
- Installation over gravel base requires use of our matting system.

SHELF LIFE

1 Year from Date of Manufacture on Packaging, provided unopened.

STORAGE

Store in a dry environment at room temperature and out of direct sunlight.

APPLICATION EQUIPMENT

- Personal Protective Equipment
- Mixing Paddle
- Drill
- Forced action mixer of suitable size to qty mix
- Trowels
- Screed Box
- Mineral Spirits/
Xylene
- Timer/Stopwatch

SURFACE DIAGNOSTICS

Concrete must be structurally sound and free of all contaminants and bond breakers. If using mesh systems, refer to its TDS sheet.

SURFACE PREPARATION

Ensure both the Product Information and Safety Data Sheets have been read and understood.

Keep materials dry and warm (when temperatures are low). Ambient temperature should be between 41°F (5°C) and 90°F (30°C) during application and cure. (contact Optus Resin for installations exceeding 90F). The substrate should be clean, dry, and structurally sound. There should be no threat of rain. Mask all adjacent surfaces, lift manhole lids, provide side restraint (kerbs, beading, etc.) and install any additional drainage or outlet (for water seeping through surfacing).

Any free edges should be restrained by an end-stop bead of the correct depth. This will serve to prevent the edges from deteriorating, provide a guide to assist application and ensure that the correct thickness of surfacing is being applied. The beads are fixed using an instant-grab caulking adhesive, nailed, or screwed.

New areas of asphalt intended to be overlaid with Pebbletone should be capable of withstanding the maximum expected loading.

New areas of concrete intended to be overlaid with Pebbletone should be capable of withstanding the maximum expected loading.

Concrete Substrate: Concrete Substrates should be at least 28 days old. New surfaces should have a profile between CSP 1-2. Remove all contamination including oils and grease, laitance, algae, moss, etc. Remove any dust by vacuuming. Remove oil, de-icing salt, grease and similar contamination by washing with a suitable degreasing agent, followed by flushing with water. Dry thoroughly and prime with one coat of our primer systems.

For installation over Mesh system see detailed cut sheet

SURFACE REPAIR

All depressions, divots and cracks should be profiled and free of dust and contaminants. Repair surface imperfections to reduce the ability to see the defect through the coating. OPTI-JOINT & OPTI-PATCH are recommended products for these repairs.

Honor all dynamic (moving) joints, static joints may be filled, use dynamic joints as initiation and termination points during application process where needed.

TEMPERATURE EVALUATION

Ambient and substrate temps should be above 5°F and a minimum of 5°F above Dew Point.

Product temps should be between 60-80°F. Relative Humidity should not exceed 80%. [See Optus Technical Bulletin 7: Temperature & Relative Humidity.](#)

REFER TO SAFETY DATA SHEETS (SDS) FOR SAFETY PRECAUTIONS.

SAFETY PRECAUTIONS MUST BE FOLLOWED DURING STORAGE, HANDLING, AND USE.

PERSONAL PROTECTIVE EQUIPMENT (PPE) SHALL BE WORN AT ALL TIMES INCLUDING BUT NOT LIMITED TO LONG SLEEVE SHIRTS OR DISPOSABLE ARM SLEEVES, SAFETY GLASSES, DISPOSABLE NITRILE GLOVES, AND PROPERLY FITTED NIOSH RESPIRATORS

ALL SOURCES OF IGNITION SHOULD BE TURNED OFF AND ENVIRONMENT SHOULD HAVE PROPER AND ADEQUATE VENTILATION DURING APPLICATION AND CURING PROCESS.

MIXING AREA SHOULD BE PLACED ON OR IN CLOSE PROXIMITY TO PROJECT. AREA SHOULD BE SECURELY COVERED WITH PLASTIC, CARDBOARD, OR TARP. STAGE MATERIALS, TOOLS, AND CLEANING SUPPLIES IN MIXING AREA PRIOR TO APPLICATION PROCESS.

DO NOT MIX MORE MATERIAL THAN CAN BE APPLIED IN 10 MINUTES

MIXING PROCEDURE

Each bag of stone must be checked to ensure it is completely dry and free of dust.

Mixing is carried out in a forced action mixer such as that supplied by Baron UK Ltd suitable for mixing up to 100kg of stone. Keep mixer clean from cured resin contamination.

- 1 Add the stone to the mixer and mix until homogeneous.
- 2 Using a drill and paddle, stir Pack A until a consistent color and pour into a container. Add Pack B and mix until homogeneous (60 seconds).
- 3 Add to the stone and mix until homogeneous (3 minutes).
- 4 Immediately discharge into a clean wheelbarrow and transfer to the application area. Once discharged turn mixer off and clean

**It is very important that you mix materials at exact duration of time throughout this process to prevent discoloration.*

COVERAGE RATE

30-75ft² (dependent on system depth)

COVERAGE RATE MAY VARY DEPENDING ON SUBSTRATE POROSITY.

WORKING TIME

10-15 Minutes @75°F

WARMER AMBIENT, PRODUCT AND SURFACE TEMPERATURES, AS WELL AS HIGHER HUMIDITY LEVELS, WILL SHORTEN POTLIFE AND WORKING TIME.

APPLICATION PROCEDURE

MIXED MATERIAL SHOULD NOT REMAIN IN MIXER.

The application area must be contained to support the wet resin mixture before it cures.

- 1 Tip the surfacing material onto the application area and spread to approximate level using a screed box, screed trowel or similar.
- 2 Using a bullnose trowel, spread and compress surfacing material to its final level standing frequently to verify the evenness of the application. Keep the trowel clean with solvent which will also assist with the final finishing.
- 3 Ensure the rate of coverage is sufficient to enable adjacent mixes to meld smoothly into one another. Joints in concrete must be taken through the surfacing (unless using mesh system). Edge bead may be used to honor joints.

4 An outlet for surface water run-off can take the form of a linear drain or gaps in edgings. Falls should be provided in the substrate leading to all drainage points.

5 The final performance of Pebbletone based surfacing is determined by the choice of resin, aggregate, and degree of compaction during installation. The installer should satisfy himself that the proposed mix is suitable for the intended use.

OPTIONAL UNDERLAYMENT

MeshandGo: (Mesh system 5/8" and deeper system)

Full Roll: 950 ft²

Triple-layered Fiberglass mesh system

Designed specifically for resin bound gravel surfacing
Ideal for overlays or newly prepared gravel bases

Bull Mesh:

Full Roll: 484ft²

Tripled-Layered Fiberglass mesh system

Created specifically for resin bound gravel surfacing.
Designed for driveway installations for heavy loads.
Perfect for overlays or newly prepared gravel bases.

SLIP RESISTANCE

Slip-Resistance – Field (in situ) Wet Dynamic Coefficient of Friction (DCOF), ANSI A326.3. [See Optus Technical Bulletin 4: Coefficient of Friction.](#)

CLEAN-UP

Clean-up mixing station, tools, and equipment as required. Use acetone, a VOC exempt solvent, for cleaning up. Observe all legal, and health, and safety precautions when handling or storing solvents and materials, particularly in confined spaces. Make sure the working areas are well ventilated at all times during placement and curing time.

DISPOSAL

Dispose of empty packaging and other waste in accordance with federal, state, provinces and local regulations.

MAINTENANCE

Inspect the installed floor by spot cleaning and spot repairing the damaged or cracked areas. To prolong life of the flooring system, a daily maintenance program is highly recommended to ensure the floor is safe for its intended purposes. [See Optus Technical Bulletin 8: Care and Maintenance.](#)

TECHNICAL SUPPORT

For questions, contact an Optus Resin Representative. Additional Support Documents are available from Optus Resin, including brochures, application guidelines, videos and more. Visit www.optusresin.com or contact Optus Resin for additional resources.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any product limitations are the only ones which may exist. Neither Seller nor Manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the products. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the Manufacturer, unless in writing and signed by an authorized corporate officer of Manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Manufacturer makes no claim that these tests or any other tests accurately represent all environments. Manufacturer is not responsible for typographical errors.

Reference Optus Resin website www.optusresin.com for additional Optus Technical bulletins and SDS sheets.