

# FLAT ROCK™

## Self-Leveling Pump and Pour Mortar



### DESCRIPTION

FLAT ROCK™ is a revolutionary self-leveling floor resurfacer designed to resurface and level uneven concrete floors. FLAT

ROCK™ becomes a liquid cement compound that can be poured or pumped, dramatically saving time and labor over conventional underlayments. This product requires no troweling, and can be applied from a featheredge to 2" thickness in one pour.

### USES

Underlayment for carpeting, vinyl and asphalt floors, ceramic tile, quarry tile and wood flooring can be used over concrete, terrazzo, ceramic tile, stone and exterior grade plywood.

### PRODUCT ADVANTAGES

- Completely self-leveling
- Pumpable
- Can be applied from a featheredge up to 2"
- Water resistant
- High compressive and flexural strength
- Interior or exterior use
- Provides dramatic savings in time and labor over conventional underlayments

### YIELD/COVERAGE

Approx. 55 sq. ft. at 1/8" thickness

### PACKAGING

5-gallon pail and 50 lb bags

### SUBSTRATE

Concrete, mortar, and masonry products.

### SURFACE PREPARATION

All dirt, oil, dust, foreign contaminants, peeling coating and laitance must be removed from surface prior to coating to assure a trouble free bond. Previously coated floors exhibiting a strong bond to surface can be coated over by sanding down the existing coating.

Refer to Garon's Master Surface Preparation & Moisture Guideline for complete details.

### MIXING AREA

Select a suitable mix area and protect the floor surface from accidental spillage with a layer of cardboard and/or plastic sheet. Provide enough space for free unimpeded movement for mixing activity. The more

comfortable your surroundings in the mix area, the less likely your mixers are to have an error. Have all necessary tools ready: slow speed drills, mix and measure containers, etc. **Do Not Start Mixing Materials Until Ready For Immediate Use.**

Once powder and water are combined, it must be used immediately. Keyed edges must be installed at edge termination points to protect the material from chipping damage and to obtain a clean, straight edge.

Fill any deep holes or depressions to existing floor elevation with a suitable grout material such as **TIGERCRETE™ SP**. Extend existing expansion and control joints in the concrete through the underlayment. Seal all perimeter openings to prevent leakage. These dams should be able to retain FLAT ROCK™ to a height equal to or greater than the finished floor elevation.

On wood floors be certain to nail down all loose flooring and fill any joints.

Corrosion-resistant expanded metal lath must be securely fastened to entire area to be covered. All wooden flooring should be of design and thickness so as to maintain a substrate of deflection not to exceed 1/360 of the span including Live and dead load. Dampen all surfaces, being careful not to allow any standing water to remain.

### MIXING

Add 50 pounds of dry mix to 5-5½ quarts water. Always add powder to the water. Do not overwater. Higher water contents can cause separation, reduction of strength and shrinkage of the cured FLAT ROCK™. When mixing small amounts, the use of a paddle mixer with a high torque, low speed (400-600 RPM) hand drill is recommended. For large jobs, an ordinary barrel mixer connected to a pump and hose is recommended. Mix material 1-2 minutes to achieve a lump-free mix. Do not mix more material than can be placed in 15 minutes. Ensure that subsequent mixes are ready to enable continuous pouring until entire area is surfaced.

FLAT ROCK™ can be applied from a featheredge up to 2" thickness. On areas over 2", mix FLAT ROCK™ with equal parts of clean, washed silica sand, preferably 20-30 mesh. The addition of sand may affect the self-leveling properties, consequently

making it necessary to apply a finish layer without the aggregate as a final coat. If a finish layer is to be applied as a final coat, THINSET™ must be applied before the final layer of FLAT ROCK™.

### PLACEMENT

Material should be placed in one continuous pour, achieving required thickness in one application. Lay in parallel strips starting at one end of the room. Material should be laid down in a succession of 3" to 6" ribbons. Pour or pump mixed material adjacent to previously placed material. A spreader tool may be used to pull the FLAT ROCK™ into place. Troweling is not recommended except to featheredge. When pumping, a progressing cavity (rotor stator tube) grout pump is recommended. Depending on the type of equipment used, a three-man crew can place between 10,000 and 50,000 square feet per day.

### CURING

FLAT ROCK™ is self-curing under normal conditions. In conditions of extreme heat, dry or windy conditions, covering surface with damp burlap is recommended.

### COLOR

Light Gray

### TECHNICAL DATA

Compressive Strength (ASTM C-109)

1 Day . . . . . 3,720 psi

3 Days . . . . . 4,140 psi

7 Days . . . . . 4,775 psi

28 Days . . . . . 7,015 psi

Flexural Strength (ASTM C-348)

28 Days . . . . . 1,050 psi

Flowing Time . . . . . 15 minutes

Working Time . . . . . 30 minutes

Setting Time . . . . . Walk on material after 4-8 hours



## WARRANTY

Due to the use of this product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either Garon Products or its agents. The suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.

## SLIP & FALL HAZZARDS

Ensure cured coating surface remains dry in pedestrian, equipment and vehicular areas to avoid slips and falls of people, equipment and vehicles. Use caution when coating is wet or when oil, hydraulic fluids, grease or other chemicals, fluids or agents that may produce a slick surface are present. Increase slip resistance by broadcasting an appropriate size aggregate into the wet coating during application in all areas where enhanced coating traction may be necessary. **Be aware of the full cure time. Do not open the area to normal service, harsh industrial chemical or abusive use before the coating is fully cured.**

## CLEAN UP

In case of spill, scoop or vacuum into appropriate container, and dispose of in accordance to state, federal, and local regulations. Mixed components: Uncured material can be removed with water. Cured material can only be removed mechanically.

## THIS PRODUCT IS FOR INDUSTRIAL AND PROFESSIONAL USE ONLY

## DISCLAIMER

The information and recommendations set forth in this document are based upon tests conducted by or on behalf of Garon Products, Inc. Such recommendations and information set forth herein are subject to change and pertain to the product(s) offered at the time of publication. Published technical data and instructions are subject

to change without notice. Consult [www.garonproducts.com](http://www.garonproducts.com) or call 800-631-5380 to obtain the most recent Product Data, MSDS and Application instructions. This is not a controlled document.

## COLOR

Applied samples, color charts, illustrations and reproductions in catalogs and other Garon publications are not guaranteed to match the color shades of materials ordered. Colors or clarity for clear may be affected by high humidity, low temperatures, or chemical exposure. Tire contact may cause discoloration. Slight lot-to-lot color variations may occur. Light or bright colors (white, safety yellow, etc.) may require multiple coats or a suitable color coordinated primer to achieve a satisfactory hide. When ordering to match a previous color, inquire if the same lot number or quality control number is still available. Colors may vary from batch to batch, therefore, use only product from the same batch for an entire job.

## FIRST AID

If ingested **do not** induce vomiting and get prompt medical attention. Skin contact--wash thoroughly with soap & water. If any product gets into the eye, rinse immediately and repeatedly with water for at least 15 minutes. For respiratory problems, remove person to fresh air. Wash clothing before re-use. Dust may cause skin or eye irritation. Wear gloves, eye and nuisance protection.

## CONSULT MSDS.

## LIMITATIONS

Do not apply to frozen surfaces or if temperature will fall below 40°F within 24 hours. FLAT ROCK™ will not correct or compensate for a structurally defective substrate. Faults in the substrate can appear in the underlayment.

The user is responsible for proper application. Garon personnel field visits are for the purpose of providing technical

assistance only and are not for providing quality control or supervision on the jobsite.

## CAUTION

Follow the Hazardous Materials Identification System labeling guide for proper personal protective equipment to use when handling this product. Use only as directed.

Contains Portland cement CAS #65997-15-1. Freshly mixed cement products may cause skin and eye injury or irritation. Avoid contact. Dust may cause respiratory tract irritation. Avoid breathing dust. Use only adequate ventilation. May cause delayed lung injury (silicosis) or cancer IARC Class 2A. Wear NIOSH approved mask for silica dust.

**Keep container tightly closed. Not for internal consumption--consult MSDS for additional information. This product is for professional use only.**

**KEEP OUT OF REACH OF CHILDREN**

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