

NEW FLOOR PROTECTION & CLEANING GUIDE

PROCESSING FLOORS

Rev. 3.28.24



PumaCRETE cementitious urethane floors are hard, impervious, non-absorbent and non-dusting. This ensures not only their durability, but ease of cleaning when a suitable cleaning program is used. **The cleaning and maintenance of a PumaCRETE floor must be considered a vital and integral part of an overall hygiene program covering all parts of a processing plant.** All PumaCRETE floors have proved to be both cleanable and sanitizable with regard to micro-organisms, and the flooring does not support the growth of bacteria.

Description of single pass and 2 layer urethane concrete floors

401 HF urethane “screed” floors are applied as a one-pass system; these floors are the “work horse” of our product line, and are designed for maximum durability. These floors may have either a light sand texture, medium, or aggressive sand texture. The sand finish is only temporary, which gives the floor temporary non-slip, until the floor “wears-in”. Once the floor “wears-in”, the large stone aggregate within the floor provides a permanent non-slip surface, which cannot wear off.

301 SL or SLB These urethane floors are designed for higher aesthetics and stain resistance than our single pass systems. These are applied in two layers. 1- the base portion, which has a layer of broadcasted sand; 2-lock coat of sealer, which seals/locks the sand, and provides a more cleanable texture. This system provides a slip-resistant surface, along with a glossy, easy to clean finish.

CURING TIME (70 deg F): *Note: The lower the room/floor temperature, the longer the cure time.*

Full cure foot traffic: 8-12 hrs

Full cure for forklifts: 24 hrs

Full cure for chemical spillage and cleaning: 3 days

* **Fast curing Polyaspartic lockcoat/topcoat option:**

4 hours cure for mechanical properties, 18 hrs for chemical resistance properties.

Material handling equipment Tires/Wheels

Some tires/wheels are better suited for our flooring, for preventing tire marks, and for traction. ***Use of non-marking material handling tires are required, in order to prevent black tire/wheel marks from being embedded into the new floor.*** These tires are generally white or light in color. Black tire marks can sometimes be removed with a good cleaner and aggressive nylon/carbide brushes. However, they require a great deal of cleaning to remove or minimize, once embedded into the finish.

POST INSTALLATION

PumaCRETE floors may be subjected to types of usage, which are very different from those expected during normal service, such as:

- Heavy lifting equipment (forklifts, etc.)
- Movement of heavy, cumbersome equipment.
- Spillage of paints, mastics, and sealants from other contractors/maintenance.

IMMEDIATELY FOLLOWING FLOOR INSTALLATION

- The installation of temporary covers of a plastic material; for example, polyethylene sheeting and 3/16” hardboard (Masonite) or Ram Board (Home Depot temporary floor protection), and tape the seams (especially if other trades are to work in the area)
- Covering the area to be subjected to traffic and additional trades with plywood sheets with heavy duty tape at the seams.
- ***The avoidance of early heavy usage***, particularly with rubber-wheeled vehicles. This will minimize the risk of dirt being embedded into the surface of the floor, before it reaches full hardness.

Note: A period of 48 hours is advised at lower temperatures before full service is permitted.

INITIAL CLEANING

When cleaning the floor prior to its being put into its intended service, more aggressive cleaning chemicals than normal may need to be used. Caustic alkali cleaners such as Simoniz 969 or chlorinated hydrocarbon solvents may be used, as long as floor has had full chemical cure (3 days minimum at 70 deg F).

Some cleaners and sanitizers are “stainers”, and can bleach and discolor the new floor surface.

SAMPLE NEW CLEANERS IN A SMALL TEST AREA, BEFORE USING on THE ENTIRE FLOOR.

Rotary Floor Machines (swing machine, buffer) and hi-pressure rinse, or Automatic Floor Scrubber (walk behind or ride-on) are most effective/efficient for both the initial and daily cleaning. Brushes should be nylon bristle with low to medium abrasiveness (*depending on make/model of machine and amount of staining*)

DAILY IN-USE CLEANING

Specialized floor cleaning equipment is widely available, as is the variety of cleaning chemicals and bactericides/sterilants used with it.

Floor Cleaning Equipment (in order of efficiency and effectiveness)

- **Broom or dust mop:** dry material pickup only
- **Mop and Bucket:** works on smooth or lightly textured floors. *Note: Never use a mop to clean a floor that is greasy or oily.*
- **Deck Brush:** medium to firm, plastic bristle (for buildup in small areas)
- **Foamer, w/ Hi Pressure washdown, and with rinse and soft neoprene rubber squeegee.**
- **Rotary Floor Machine (swing machine, buffer):** Brushes should be nylon low to medium abrasive flex bristle brush.
- **Wet Vac or Automatic Floor Scrubber:** vacuum up water, if drain not available

BRUSH SELECTOR (use for textured or smooth floors) *Listed from least to most aggressive*

Advance brand brush names are used, as the standard for the industry.

- Prolene Brush:** medium duty polypropylene brush for **DAILY USE**. (on smooth floors, this would clean equal a blue pad).
- AgLite Grit 500:** nylon bristles impregnated with 500 grit silicon carbide for **DAILY USE** on urethane coated sealed flooring. This will provide a light scrubbing/buffing action. (on smooth floors, this would clean equal a blue or green pad).
- MidGrit 240:** nylon bristles impregnated with 240 grit silicon carbide for general purpose scrubbing on sealed concrete, stone, terrazzo, quarry tile. (on smooth floors, this would clean equal a blue or green pad).
- MidLight Grit 180:** stiffer bristles and more coarse 180 grit. Provides longer life and more aggressive cleaning on difficult soils. (on smooth floors, this would clean equal a green pad).
- Dyna Grit 80:** stiff nylon bristles impregnated with a coarse silicon carbide, for extreme scrubbing or stripping. (on smooth floors, this would clean equal a brown pad).
- Magna Grit 46:** very stiff nylon bristles with very coarse silicon carbide for extreme scrubbing or stripping. (on smooth floors, this would clean equal a black pad). (THIS MAY PUT DEEP SCRATCHES IN A FLOOR COATING. TEST IN INCONSPICUOUS AREA, BEFORE USING)

Cleaning-equipment manufacturers have specialized knowledge, and offer practical demonstrations of equipment. You are advised to consult them. The list below is not exhaustive but it's provided as a guide. (Similar equipment from other manufacturers may be equally suitable).

Advance/Nilfisk, Tennant Co., Hoover, Henkel, Ecolab, Electrolux Equipment Supplies

CLEANERS

Including bactericides: the variety of cleaning chemicals and bactericides/sterilants available is extensive, and making the appropriate selections can be confusing. The correct choice of chemicals is important and you are strongly advised to seek specialist advice. The following companies will be able to offer advice on the selection of appropriate cleaning chemicals in relation to "soil" types including the removal of unsightly rubber tire marking. The listing is by no means complete and consultation with other reputable suppliers is recommended.

Ecolab, Zep, Delta, Tennant, Simoniz, Spray 9

DAILY MAINTENANCE and REPAIR

Even the most meticulously cleaned floor may suffer damage to its integrity by some unforeseen incident in the workplace, which could result in a consequential risk of bacteriological build-up in cracks etc. If this situation arises, the damaged floor should be repaired without delay. You may consult our technical support department, which has the in-depth knowledge of the remedial techniques that will restore your urethane floor to its original condition.

REPAIR KITS

We stock repair kits, if needed, which may be used to easily perform minor repairs.

Safety Note:

No matter how aggressive the texture of your floor, if it is not cleaned properly, it can present a slip hazard. Emulsifying and rinsing your floor properly will reduce the risk of a slip and fall incident.