



TECHNICAL INFORMATION

CES-369

11/25 SUPERSEDES: 07/25

CLEANING PENNTROWEL™ AND PENNCOAT™ FLOORING SYSTEMS

1. GENERAL

- 1.1 Adherence to the following cleaning procedures will enable the end-user to realize the maximum advantage of Armor Penntrowel and Penncoat seamless flooring systems. Penntrowel and Penncoat are industrial flooring systems that are resistant to abrasion, wear, and chemical attack. When used in association with a routine cleaning and maintenance program, this guideline document will enable the floor to maintain a high standard of cleanliness and sanitation, slip resistance, hygiene, and appearance.

2. CLEANING

- 2.1 Always test a cleaner in a discreet area to verify it does not cause staining before proceeding.
- 2.2 Perform regular cleaning using warm or hot water with a neutral, or mild alkaline (pH 6-8) detergent mixed in the proportions recommended by the manufacturer. Water/detergent mixture must be allowed to remain on the floor for sufficient time (5 to 10 minutes) to allow penetration and emulsification of the dirt. Follow up by rinsing thoroughly with clean water to remove all traces of the mixture. Use of rotary, cylindrical, or reversing scrubbing machines is permitted. Machines should rotate at slow to medium speeds. Such machines are frequently accompanied by a suction drying function. Initially, the suction function should not be utilized to allow the water/detergent mix to remain on the floor and penetrate the dirt layer. Allow 5 to 10 minutes to elapse and repeat scrubbing with clean water only. Suction systems, if available, can be commissioned for use at this point. Where bacterial and fungal growth are an issue, clean with mildly acidic or alkaline CIP cleaners.
- 2.3 Use extreme caution when using high-pressure water/steam jets as damage to the floor may occur.
- 2.4 CIP cleaners should be carefully selected to accomplish appropriate levels of hygiene and sanitation for specific areas of concern. Very strong acids and caustics can cause damage or discoloration to the surface. Acidity is generally less damaging than alkalinity. Many degreasing agents contain wax, sodium silicate, or other additives that can leave a sticky deposit on the surface. Such additives should be avoided.
- 2.5 Abrasive powders may damage Penntrowel and Penncoat seamless flooring systems and should be tested first for compatibility or avoided.
- 2.6 Do not use solvents for cleaning unless thoroughly checked to ensure they will not damage the lining.
- 2.7 Mechanical scrubbers or stiff bristle brushes should not employ steel bristle/wool scouring heads. Penntrowel and Penncoat floors should not be waxed or polished.

3. WET AREAS

- 3.1 Locations that are permanently wet may attract a build-up of fats, oils, organic residues, and other organic growth. Removal of these deposits will require regular use of a more acidic cleaning agent.

4. CONDUCTIVE & ESD FLOORS

- 4.1 Cleaning methods are the same as described in the preceding sections of this document. Residues resulting

from operations and maintenance should be promptly removed, as they may interfere with the intended design of the flooring system.

5. CHEMICAL SPILLS

- 5.1 Certain chemical spills may stain Penntrowel or Penncoat lining systems. Such staining does not indicate failure or degradation of the flooring system and is a result of a chemical reaction between the chemical and the flooring systems polymer. In some cases, concentrated sulfuric acid may cause a reddish stain and hydrochloric acid may cause a bluish stain. These stains cannot be removed by cleaning, but the lining when properly prepared can be recoated to restore the finish color.

6. SAFETY PRECAUTIONS / DISCLAIMER

- 6.1 Consult current Safety Data Sheets before commencement of work.
- 6.2 Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using. While all statements, technical information, and recommendations contained herein are based on information our company believes to be reliable, nothing contained herein shall constitute any warranty, express or implied, with respect to the products and/or services described herein and any such warranties are expressly disclaimed. We recommend that the prospective purchaser or user independently determine the suitability of our product(s) for their intended use. No statement, information or recommendation with respect to our products, whether contained herein or otherwise communicated, shall be legally binding upon us unless expressly set forth in a written agreement between us and the purchaser/user. For all Terms and Conditions of Sale see armor-inc.com.
- 6.3 Please contact Armor for further information at +1-877-98ARMOR (982-7667) or customerservice@armor-inc.com.

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