

SunRestore EMS-AR

Epoxy mortar system-abrasion resistant

Product description

SunRestore EMS-AR is a three-component, silicon carbide based, epoxy slurry system installed at 1/4 inch (250 mils) designed to resist extremely abrasive environments. SunRestore EMS-AR is U.S.D.A. acceptable for food processing plants, and has excellent resistance to many acids, caustics, detergents, and other corrosive materials. The pre-measured units are easy to mix and apply. The fast set and short cure times make a quick turn around for commercial spaces under remodel. The silica carbide aggregates increase the abrasion resistance properties.

Limitations

- Apply at temperatures above 65°F (18° C) and below 85°F (29.4°C)
- New concrete should be cured for at least 28 days prior to application.
- MVR (moisture vapor rate) shall be 5 pounds per 1000 FT². Floors that exceed the 5 pound limit should use the SunEpoxy MVB vapor barrier system before application.
- Material should be kept at 70°F (21° C) prior to the installation.

Packaging

SunRestore EMS-AR is packaged in batch units as follows:

2 batch unit;

- 2 containers - Part A (resin)
- 2 containers - Part B (hardener)
- 2 bags - Part C (abrasion resistant aggregate)
- 50 pounds of 36 mesh aluminum oxide.

20 batch unit;

- 20 containers - Part A (resin)
- 20 containers - Part B (hardener)
- 20 bags - Part C (abrasion resistant aggregate)
- 400 pounds of 36 mesh aluminum oxide.

Storage Instructions

Store in a dry area between 50°F and 90°F (10°C - 32°C) Avoid direct sunlight, extreme heat, <90°F (32°C). Shelf life when stored properly is 1 year.

Coverage Rate

The coverage rate is 60 FT² for the 2 batch unit, and 600 FT² for the 20 batch unit. Coverage is based on a 1/4 inch application or 250 mils.

Surface Preparation

Concrete must be cured a minimum of 28 days and be clean, structurally sound, and free of wax, oil, dust, loose paint or curing compounds. Surface may be damp, but standing water should be removed. Concrete should be shot blasted, or diamond ground to achieve a CSP of 3.

Technical Information

Meets OTC, CARB, LADCO VOC restrictions.

Solids by weight 100% VOC < 50 g/l

HEADQUARTERS

SUNDECK PRODUCTS USA INC.
805 AVENUE H EAST #508
ARLINGTON, TX 76011 USA

Toll Free (877) 478-6335 • www.sundek.com
Email solutions@sundek.com

Mixing

Material should be kept at 70°F (21° C) prior to the installation. Mortar: Empty the entire contents of Part A and Part B into a pail and mix thoroughly for two minutes. Slowly add the entire contents of Part C (aggregate) and continue mixing the three components, (Part A, B, and C) for an additional two minutes. Pour the entire batch onto the floor, immediately after mixing spread appropriately. If mortar is allowed to sit in the mixing container the working time of the system will be reduced.

Application

Application temperature is between 65°F (18° C) and 85°F (29.4°C) Do not install the SunRestore EMS-AR if the substrate temperature is below 55°F (12.7° C). Pour mortar mixture in a ribbon on the floor, spread evenly with a screed (guaged) rake (fitted with a 1/4 inch cam) and back-roll with a looped roller to smooth any irregularities in the film. Leaving a wet edge for the next batch. For additional abrasion resistance broadcast 36 mesh aluminum oxide into the wet surface at a rate of 2 pounds per 10 square feet. Repeat process until entire floor is covered. Repeat process until entire area has been covered. After the SunRestore EMS-AR has hardened (approximately 2 hours), sweep off excess aluminum oxide from the broadcast coat. Unless otherwise specified, the SunRestore EMS-AR flooring system is designed to follow the existing contour of the floor.

Foot traffic 2 hours.

Heavy traffic 96 hours.

Compressive strength 11,500 PSI (after full cure)

Safety

Avoid skin contact. If eye contact occurs, flush with water and consult a physician immediately. Keep work areas well ventilated. Never seal a container of mixed Part A and B, as the continuing exothermic reaction may cause container to explode. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards. Sundek Products USA, Inc. or its sales agents will not be responsible for injury caused by improper use. Refer to the product Safety Data Sheet (SDS).

Product Warranty

Sundek Products USA, Inc. standard warranty applies.

Disclosure

Dealers must carefully review site conditions, especially the substrate condition, and its moisture content. For floors that exceed 5 pounds MVR, Sundek recommends the use of SunEpoxy MVB vapor barrier treatment to prevent failure from moisture related issues. These and other installation variables affect product yields and overlay bonding quality. Consideration of these variables is the responsibility of the installer.