

FibreCrete - AR No. 206 is a fiber-rein-forced, chemically-resistant, 100% solids, epoxy lining system used to protect concrete and steel tanks, scrubbers, ductwork and other vessels from abrasion and chemical and physical abuse. The interlocking fiber matrix of FibreCrete systems exhibit outstanding flexural and tensile strengths. Fibrecrete AR No. 206 offers excellent resistance to abrasion, heat and chemical attack typically found in flue-gas and refining applications.

FibreCrete may be used in many kinds of manufacturing, processing, storage, and shipping areas. It is specifically formulated to resist a wide range of corrosive environments. This material is applied by spray and provides a protective barrier resistant to thermal shock in refrigeration areas and is resistant to higher temperatures.

The FibreCrete system utilizes Sauereisen ConoWeld No. 501 as a bond enhancing primer. For a glossy surface, FibreCrete may be topcoated with Sauereisen ConoGlaze.

CHARACTERISTICS

- ☐ Excellent resistance to sulfuric acid.
- Meets USDA standards for use in federally inspected meat and poultry plants.
- ☐ Inter-locking fiber matrix.
- ☐ Colors available in 53 gray, 63 tile red.

AREA PREPARATION

Temperature of Working Area

For optimum conditions, maintain a temperature of 60°-85°F on air, substrate, Liquid, and Hardener components during mixing, application, and cure.

The monolithic components should be maintained at 65°F to 80°F for 48 hours prior to beginning work.

At temperatures below 65°F, the application becomes more difficult and curing is retarded. Above 80°F, the material working time decreases.

PHYSICAL PROPERTIES

30 minutes
Concrete failure
5,400 psi (380.0 kg/cm ²)
91.0 pcf (1.48 gm/cm ³)
3,700 psi (260.2 kg/cm ²)
2.4 x 10 ⁵ psi (1.69 x 10 ⁴ kg/cm ²)
180°F (82°C)
1,900 psi (133.6 kg/cm ²)

Physical properties were determined on specimens prepared under laboratory conditions using applicable ASTM procedures. Actual field conditions may vary and yield different results; therefore, data are subject to reasonable deviation.

entrapped air or moisture in the substrate. In rising temperatures it may be necessary to postpone the application or apply during cooler hours.

Surface Preparation

Metal - Abrasive blast to a nominal 2.5 mil profile employing SSPC-SP5 White Metal Blast for immersion and SSPC-SP10 for other service conditions. All welds must be continuous, free of flux and have a smooth rounded radius without any sharp edges.

Concrete - Refer to SSPC-SP13/NACE 6 "Surface Preparation of concrete" for detailed guidelines.

New Concrete - All structures must have the necessary strength to withstand imposed loads during normal use and operation. Surface should be floated free of ridges or depressions and all voids filled with Sauereisen Underlayment No. F-120 or No. 209 Filler Compound. The choice of underlayment will depend on the severity of the voids to be filled. Surfaces should be sloped a maximum 1/4 inch per foot for drainage.

Surfaces should be made free of oil, grease, water, and other contaminants that may inhibit bond. This can be achieved by chemical cleaning. Abrasive blast, high-pressure water blast, or acid etch concrete to remove laitance and obtain uniform surface texture exposing fine aggregate resembling coarse sand-paper.

Old Concrete - Concrete must be dry, firm and must have the necessary strength to withstand imposed loads during normal use and operation. Mechanical methods should be utilized to remove old paints, protective coatings, and deteriorated concrete. Surfaces should be made free of oil, grease, water, and other contaminants that may inhibit bond. This can be achieved by chemical cleaning.

Abrasive blast, high-pressure water blast, or acid etch concrete to remove laitance and to obtain a uniform, sound substrate.

All prepared surfaces must be allowed to dry prior to the coating application. Regardless of preparation method used, all surfaces must be vacuumed to remove any loose deposits or contamination.

EXPANSION/CONTROL JOINTS

Joints are to be placed around existing expansion joints, all fixed objects, peripheries of room and all points of movement in the base slab. Consult Sauereisen for recommendations.

APPLICATION

An appropriate Sauereisen primer should be applied prior to the FibreCrete installation. This will enhance bond strength. ConoWeld No. 501 is the standard Sauereisen epoxy primer for concrete.

Where porosity of concrete is a concern, PenePrime No. 500, a deep-penetrating waterborne epoxy primer, is recommended. Hi-Temp Primer No. 560 with Zinc Filler No. 561 is preferred over steel.

Mixing

Primer - Primers are supplied in premeasured containers. Remix individual containers before using.

Packaging of Primers No. 500 and 501 consists of Hardener Part A and Resin Part B which must be mixed together.

Completely empty contents of Hardener Part A into Resin Part B container. Using a slow speed 1/2 inch drill motor with a "Jiffy" type blade, mix thoroughly until blended for three minutes. Primer is ready for use immediately after mixing.

Primer No. 560 is a single-component urethane. Ferrous substrates require the addition of Zinc Filler No. 561.

FibreCrete - Packaging consists of premeasured unitized containers of Hardener Part A and Resin Part B. Remix Part A and B before combining.

Completely empty contents of Hardener Part A into Resin Part B. Using a slow speed 1/2 inch drill motor affixed with a "Jiffy" type blade, mix 3 - 5 minutes until thoroughly blended.

Mix only complete batches. Material which has begun to set must be discarded. Do not add any solvent, additive, or adulterant to any component or mixed material.

Installation

Primers - Apply Primer to concrete or steel using a short nap adhesive roller with a nondegradable core, or nylon bristle brush. Consult Sauereisen for spray recommendations.

At 70°F, the epoxy primers must be allowed to cure at least eight hours, but no longer than 24 hours, prior to application of FibreCrete The moist-cured urethane No. 560 may be topcoated between two hours to 24 hours after application. If recoat time exceeds 24 hours, consult Sauereisen for solventwipe procedures.

Prior to application of FibreCrete inspect primed surface for voids, bubbles, or defects that may result in blistering or pinholes in the lining. Repair with Sauereisen No. 209 Fast Set to ensure a sealed surface.

FibreCrete No. 206

Spray application - A single coat of 40 mils thick is suitable for most FibreCrete applications. When building greater thicknesses, two equal coats may be necessary. In either case, application should be done with a 50% overlap in a "cross hatch" pattern to reduce the possibility of pinholes and to assure complete coverage. Recoat times shall not exceed 24 hours.

After FibreCrete has sufficiently cured, a holiday detector may be utilized to ensure a continuous pinhole-free lining. Consult a Sauereisen representative for details.

The following equipment is typically used for spray application:

Mastic pump - FibreCrete may be sprayed with a minimum 56:1 piston-primed, airless pump such as manufactured by Graco. The current specifications for new equipment is the Graco 56:1 King Piston Primed Airless, Model 236-477. Other pumps may be suitable, depending on job site requirements. Remove filter from surge tank.

Gun - Graco Pistol-Grip Flo Gun, Model 224-991.

Gun tip - Graco Reverse-a-CleanTM housing part No. 222-674 with 0.039" to 0.043 inches. For unreinforced coatings, the 0.039 tip works best. In either case, the diffuser should be removed prior to use.

Material hose - 6' whip end, 3/8" i.d.; working pressure 5,000 psi, 16,000 psi burst.

Material hose - 0-25' overall, 1/2" i.d.; working pressure 4,000 psi, 16,000 psi burst.

Material hose - 25-75' overall, 3/4" i.d.; working pressure 4,000 psi, 12,000 psi burst.

Air compressor - 180 ft³ per minute at 100 psi, minimum.

Air hose from compressor - 3/4" to 1" i.d.: 100' maximum length to mastic pump.

Measures such as water traps, dryers, or filters should be used to prevent pump freeze-up.

COVERAGE

ConoWeld 501 200 ft 2 /gal. at 8 mils PenePrime 500 200 ft 2 /gal. at 8 mils Hi-Temp Primer 560 320 ft 2 /gal. at 5 mils FibreCrete 40 ft 2 /gal.at 40 mils

Coverage is theoretical and will vary depending upon surface conditions, porosity, application techniques and specific project conditions.

SETTING/CURING

Do not allow water or chemicals on the material surface for a minimum of 24 hours. For harsh chemical or physical environments cure a minimum of 72 hours prior to exposure.

PACKAGING

Unit Size	Part A	Part B
1 gallon	1 qt. can	2 gal. pail
2.5 gallon	1 gal. can	3.5 gal. pail
5 gallon	1 gal. can	6 gal. pail

*Containers are filled by weight, not volume. Container size does not indicate volume of contents.

CLEAN-UP

All equipment should be cleaned with MEK before material cures. If removal is required after cure, consult Sauereisen for specific recommendations.

SHELF LIFE

FibreCrete has a shelf life of one (1) year, when stored in unopened, tightly sealed containers in a dry location at 70°F. Avoid freezing. If there is a doubt as to the quality of the materials, consult a Sauereisen representative.

CAUTION

Consult Material Safety Data Sheets and container label Caution Statements for hazards in handling these materials.

LEGAL NOTICE

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160 Gamma Drive Pittsburgh, PA 15238-2989 USA Phone 412.963.0303 Fax 412.963.7620 www.sauereisen.com