**ENVIRONMENTAL COATINGS**
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# SEWER SHIELD COTE 120 - PRODUCT DATA SHEET

## Product Description

**Sewer Shield Cote** is a 100% solids, USDA **APPROVED**, solvent free, low odor, epoxy coating system, impervious to a wide variety of acids, solvents, caustic solutions, oils, grease and many other chemicals. **Sewer Shield Cote** is specially formulated in various setting times and with virtually no odor, making it the ideal protection system for use in the food, dairy, meat, beverage, brewery and chemical industries. **Sewer Shield Cote** when cured provides an impervious, hygienic, easy to clean, glossy surface. Its unique formula, which incorporates special adhesion promoters and stress relieving additives, provides a tenacious bond to most surfaces including damp concrete and also provides ample resilience to resist most cracking from thermal or physical abuse. **Sewer Shield Cote** is excellent as a protection system to walls and floors subject to light to medium traffic.

## Application

**Sewer Shield Cote** can be applied by roller, brush or spray with a coat thickness of approximately 10 mils being possible in one application. It's self-priming capabilities and tolerance for damp surfaces offers the installer many labor saving steps as well as less shut down time due to the fact that **Sewer Shield Cote** has very low odor and no solvent. No special precautions are necessary to help contain any odor or solvent smell often found in many other coating systems; even spraying of **Sewer Shield Cote** can be carried out with no solvent added. **Sewer Shield Cote** can be applied to concrete, wood, metal, aluminum as well as stainless steel, without a primer. Further advantages of **Sewer Shield Cote** is that because of its 100% solids formulation, it can be applied to floors as a broadcast system either in solid colors or as a decorative quartz or flake system, producing either a textured or smooth finish.

## Coverage

Coverage is dependent on the texture of the substrate. The average rate per gallon is 160 square feet, which produces an approximate thickness of 10 mils.

## Setting Times

**Sewer Shield Cote** is available in the following setting times:

**Sewer Shield Cote** for normal ambient temperature.
**Sewer Shield Cote** for FS (fast set) for fast setting times at ambient temperature.
**Sewer Shield Cote** XFS (extra fast set) for extra fast setting times at ambient temperature.
**Sewer Shield Cote** CS (cold set) for temperatures down to 45$^{o}$F.
**Sewer Shield Cote** XCS (extra cold set) for temperatures down to 35$^{o}$F.

## Colors

**Sewer Shield Cote** is supplied in the following colors: Grey, Dark Grey, Brick Red, Beige, Green, Brown and White. Special colors are available upon request.

## Packaging and Mixing

**Sewer Shield Cote** is supplied in either pre-measured packs or as a standard pack (4 gallons) with a "user friendly" convenient easy to mix ratio of two to one by volume (Part A to Part B). Pour the contents of Part B into Part A and mix thoroughly with either a low speed drill (700 rpm) or a bucket mixer to uniform consistency for approximately one minute, making sure the sides and bottom are scrapped. If a paddle is too small, it will not give a uniform mix and an incomplete cure will result together with wet spots. Over mixing with a high-speed drill will shorten the pot life as well as introduce excess air into the mix.

## Priming

**Sewer Shield Cote** is self-priming, however, priming is recommended to help seal the concrete and reduce any out gassing which creates bubbles in the coating. Sealing of the concrete also produces a uniform surface, which reduces excess absorption of the coating eliminating any "dry spots". Mechanically cleaned concrete is invariably left with an "open" porous surface and priming is highly recommended. Priming is done with either **Corro-Prime**, which is a 100% solids primer, or with **Corro Aqua-Prime**, which is a water-based primer. For rough open surfaces use **Corro-Prime** and for a smooth dense surface use **Corro-Aqua-Prime**. However, if **Sewer Shield Cote** is going to be applied over "green" concrete, then our **Corro-Cure** (a slow set primer) must be used first. See **Corro-Prime** data sheet.

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**Chemical Resistance**

(21 day Immersion)

| Chemical | | Rating | Chemical | | Rating |
|---|---|---|---|---|---|
| Acetic Acid | 20% | OS | Nitric Acid | 10% | FS |
| | Glacial | NR | | 30% | OS |
| Acetone | | NR | | 50% | NR |
| Ammonium Hydroxide | | FS | Oleic Acid | | FS |
| Aniline | | NR | Palm Kernel Oil | | FS |
| Animal Fats | | FS | Phosphoric Acid | 30% | OS |
| Beer | | FS | | 50% | NR |
| Chlorine Water | 30% | FS | | 85% | NR |
| Chloroform | | NR | Picric Acid | | FS |
| Citric Acid | 50% | FS | Salt Brine Solution | | FS |
| Ethyl Acetate | | NR | Sodium Hydroxide | 30% | FS |
| Hcl | 10% | FS | | 50% | FS |
| | (37%) conc. | FS | Sodium Hypochlorite | 5% | FS |
| Hydrogen Peroxide | 10% | FS | | 10% | OS |
| | 30% | FS | | 15% | NR |
| Hydrogen Sulfide | | FS | Sufuric Acid | 10% | FS |
| Lactic Acid | 20% | OS | | 50% | FS |
| | 50% | NR | | 80% | FS |
| | 88% | NR | | 98% | FS |
| Methanol | | FS | Tannic Acid | 50% | FS |
| Methylene Chloride | | NR | Toluene | | FS |
| MEK | | NR | Xylene | | FS |

Note: The table should be used as a guideline, as no warranty can be expressed or implied regarding the accuracy of the information given as it would apply to actual plant use. Certain chemicals will discolor the epoxy floor, however, this will in no way affect the integrity of the system.

Code: FS - Frequent Spillage
OS - Occasional Spillage
NR - Not Recommended

Physical Characteristics

| | | | |
|---|---|---|---|
| Solids by Weight: | 100% | Mixing Ratio by Volume (A:B): | 2:1 |
| Density for Color: | Gray* | | |
| Part A: | 12.24 lbs./gal. | | |
| Part B: | 8.6 lbs./gal. | | |
| Mixed: | 11 lbs./gal. | Pot Life (at 70°F): | 45 minutes |
| Curing Times (at 77°F) | | Hardness ( Shore D): | 80 |
| Tack free time: | 6-8 hours | 60° Gloss: | 100 |
| Lite Traffic: | 15 hours | Direct Impact: | ok at 40 in. lbs. |
| Full Chemical Cure: | 7 days | Cross Hatch Adhesion: | no loss |
| Shelf Life: | 12 months | Tensile Elongation (D-638) | 9.0% |
| | | Conical Mandrel: | ok on 1/2" bend |

*Density will vary according to color.