



EUCLID CHEMICAL

INCRETE POLYSEAL HS

HIGH SOLIDS CLEAR POLYASPARTIC COATING

High performance floor coatings

Description

INCRETE POLYSEAL HS is a unique high solids (96%), 2 part coating utilizing polyaspartic technology. Engineered as an easy to apply, flowable high performance coating with a long pot life. INCRETE POLYSEAL HS combines extremely low VOC's with excellent workability and quick cure time for those fast track projects.

Primary Applications

- Warehouse and garage floors
- Food processing, kitchens, food storage areas
- Pharmaceutical plants
- Cool processing areas
- Manufacturing plants, workshops and Hangers
- Education facilities and hospitals
- Light commercial/industrial facilities
- Lavatories and Showers

Features/Benefits

- Fast curing, fast turnaround
- Excellent UV stability
- Excellent weathering characteristics
- Outstanding chemical resistance
- High temperature resistance
- Low temperature cure
- Abrasion resistant
- Outstanding durability
- Low odor and VOC's
- May be mixed with INCRETE METAL FX
- High gloss finish
- Good adhesion to INCRETE HIGH PERFORMANCE EPOXY

Technical Information

MATERIAL PROPERTIES @ 75°F @50% R.H.

Mix Ratio, by volume B to 100 parts A.....	100
Viscosity Part A, cps.....	311
Viscosity Part B, cps.....	397
Viscosity (initial), cps.....	495
Viscosity (30 min), cps.....	990
Working Time - Pot Life (min).....	25-35
VOC's.....	2 g/L
Tack Free (min).....	60-120
Thin Film Set, 6 Mils (hrs) - Return to Service.....	3-4
Thin Film Set, 10 Mils (hrs) - Return to Service.....	3-4
Light Foot Traffic (hrs).....	3-4
Heavy Traffic (hrs).....	24
Hardness (7 day shore A).....	> 75
Percentage NV Solids (wt).....	96%

Chemical Resistance	Rating (1 Hr)	(4 Hr)	(24Hr)
Water	5	5	5
Acetic Acid, 56%	4	4	1
Motor oil	5	5	5
Used motor oil	5	5	5
Isopropyl alcohol, 99%	5	5	5
Transmission fluid	5	5	5
Ketchup	5	5	5
Mustard	5	4*	3
Red wine	5	5	5
Kerosene	5	5	5
Hydrochloric acid, 0.5N	5	5	5
Sodium Hydroxide, 50%	5	5	5

*Slight Staining

Packaging

INCRETE POLYSEAL HS is packaged in 2 gal (7.6 L) kits.

Shelf Life

1 Years in original, unopened containers.

Coverage

Coverage/U.S.Gallon (3.78 L)	
5 mils 320 ft ² (127 μm 29.7 m ²)	
10 mils 160 ft ² (250 μm 14.8 m ²)	
20 mils 80 ft ² (400 μm 7.5 m ²)	

If used for **INCRETE METAL FX**, **INCRETE GRANITE COAT** or **INCRETE CHROMAQUARTZ** please refer to the system technical data sheet.

Note: Coverage rates are approximate. Actual coverage depends on temperature, texture, and substrate porosity.

INCRETE POLYSEAL HS

Master Format #: 00 00 00

Directions for Use

APPLICATION PROCESS

Surface Preparation: The surface must be structurally sound, clean and free of grease, oil, curing compounds, soil, dust and other contaminants. See note in "Precautions/Limitations" section if coating is to be placed over old/existing epoxy or urethane coatings. New concrete and masonry must be at least 28 days old. Surface laitance must be removed. Concrete surfaces must be roughened and made absorptive, preferably by mechanical means, and then thoroughly cleaned of all dust and debris. The Concrete Surface Profile (CSP) should be equal to CSP 2-3 in accordance with Guideline 310.2R-2013, published by the International Concrete Repair Institute (ICRI). Allow substrate to dry before coating application. Following surface preparation, the strength of the surface can be tested if quantitative results are required by project specifications. An elcometer or similar tensile pull tester may be used in accordance with ASTM C1583, and the tensile pull-off strength should be at least 250 psi (1.7 MPa).

Do not apply epoxy, urethane, or polyaspartic coatings if there is excessive moisture in the concrete, or if the moisture vapor emission rate (MVER) is high. Before application of approved primer, perform either of these tests: ASTM F2170 - Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using In-Situ Probes, or ASTM F1869 - Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride. If the relative humidity is 70% or greater, or the MVER is 3 lbs/1000 ft² /24 hrs or greater, use a moisture mitigation system such as Euclid Chemical's Dural Aquatight WB. If coating over an existing, sound resinous floor system abrade surface with 36 grit paper/screen and perform appropriate pull tests to verify adhesion. All steel surfaces should be blasted in accordance with SSPC-SP10 or NACE #2 to a "NEAR WHITE" finish using clean dry blasting media.

Prime: Prime surface with INCRETE HIGH PERFORMANCE EPOXY or another Euclid Chemical approved primer, prior to application.

Mixing Instructions: Pre-mix Part A and Part B separately, then pour Part B into Part A container and thoroughly mix using a low speed drill motor and a "Jiffy" type mixer. Mix only the amount of material that can be applied during the pot life. Do not aerate the mix.

Application Techniques: During installation and initial cure cycle substrate and ambient temperature must be above freezing. Substrate temperature must be at least 5°F(3°C) above the dew point. Apply INCRETE POLYSEAL HS using a squeegee and backroll with a non-shredding 3/8" (or shorter) nap roller. To avoid mix-to-mix "tie-ins" do not exceed 10 minutes from one mix to another. INCRETE POLYSEAL HS is a fast curing material, so mixing and installation crews must be organized and experienced. If applying a second coat, allow the first coat to cure for 2-4 hours (depending on temperature during cure). If second coat is not applied until after 24 hours, use 36 grit paper to sand original coat. Thoroughly clean the surface of dust and debris before the application of the second coat.

Clean-Up

Clean tools and application equipment with INCRETE SOLV-KLEEN, methyl ethyl ketone or acetone immediately after use. Clean spills or drips with solvent while still wet. Dried INCRETE POLYSEAL HS will require mechanical abrasion for removal.

Precautions/Limitations

- Store at temperatures between 50 to 90 °F (10 to 32 °C).
- Do not aerate during mixing.
- Do not mix or apply unless surface, air, and material temperatures are 33°F (0.6°C) and rising.
- Do not apply if surface temperature is within 5°F (3°C) of the dew point in the work area.
- Cure new concrete 28 days before application.
- Do not apply to slabs on grade unless a heavy uninterrupted vapor barrier has been installed under the slab.
- Do not apply if the floor is subject to moisture vapor drive or hydrostatic pressure.
- For professional use only.
- In all cases, consult the Safety Data Sheet before use.
- If used in INCRETE METAL FX, INCRETE GRANITE COAT or INCRETE CHROMAQUARTZ, please consult the respective technical data sheet for proper installation instructions and coverages.

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