



CHEM-FLOOR

High Gloss Solvent-Free Heavy Duty Epoxy Coating

PRODUCT DESCRIPTION

Chem-Floor is a two component, 100% solids, high modulus, high gloss, heavy-duty, clear or pigmented epoxy floor coating system. The **Chem-Floor** heavy duty epoxy system is used as a protective floor coating for concrete floors and as a high gloss seal coating for heavy-duty epoxy mortar systems. The **Chem-Floor** heavy duty epoxy product can be used as a high gloss coating, non-slip aggregate broadcast and epoxy mortar flooring system. **Chem-Floor** has excellent abrasion and chemical resistance.

FIELDS OF APPLICATION

The **Chem-Floor** protective coating systems are designed for use in the following industries:

- Chemical processing Plants
- Laboratories
- Bottling plants
- Pharmaceutical plants
- Food processing Plants and Slaughterhouses
- Restaurants
- Hospitals
- Nursing Homes
- Schools
- Offices and corridors
- Washrooms
- Commercial kitchens
- Power plants, switchgear rooms, turbine areas, etc.

PRODUCT FEATURES

- Solvent-Free Epoxy System
- Excellent Chemical Resistance
- High Compressive Strength
- Excellent Abrasion Resistance
- High Gloss Retention

PACKAGING

Product	Packaging
Chem-Floor (grey)	1 and 4 gallons (4.7, and 18.8 kg)
Chem-Floor (clear)	1 gallon (4 kg)

Other colors available on request from the standard color charts.

TECHNICAL DATA

	Resin Part A	Hardener Part B
Solids	100 %	100 %
Color	Clear or Grey	Clear
Density (Clear) lb/gal (Kg/L)	9.0 (1.08)	8.0 (0.96)
Density (Grey) lb/gal (kg/L)	11.0 (1.33)	8.0 (0.96)
Mixing Ratio	3 : 1 (by Volume)	
Shelf Life	2 year	2 year

	Properties @ 77°F / 25°C	ASTM Method
Mixed Density Clear lb/gal (kg/L)	8.8 (1.06)	D-1475
Mixed Density Grey lb/gal (kg/L)	10.5 (1.26)	D-1475
Gel Time (60 gm)	30 minutes	D-2471
Pot Life, 11 lb (5kg)	15 minutes	-
Hardness (Shore)	86-D	D-2240
Compressive Strength, Psi (MPa) (7days)	13670 (93)	D-695
Bond Strength to concrete	Concrete Failure	D-4541 Method C
Water Absorption 24 hrs	0.15%	D-570
Abrasion Resistance	50 mg/1000 cycle	D-4060
Final Cure	7 days	-

Chemical Resistance:

Tests are performed according the ASTM D543 –Practice A (Immersion test for 7 days at 77°F / 25°C)

The fully cured product is resistant to:

- Water (Distilled, Tap, chlorinated, sewage, sea)
- Sulfuric acid* 50%wt
- Citric Acid, 30% wt
- Caustic Soda, 50%
- Hydrochloric acid, 15%
- Diesel
- Hydraulic Oil

* Minor Color Change

Refer to manufacturer for resistance of other reagents.

APPLICATION

Limitations:

Application at ambient temperature below approx. 40°F / 5°C is not recommended. Exposure to temperatures exceeding 150°F / 65°C for prolonged periods is not recommended.

Please refer to guide specifications for proper application details and thickness requirements.

SAFETY PRECAUTIONS

- Store all materials at 21°C during application and for at least 2 days prior to use. Low temperatures will increase viscosity of the product causing poor coverage and retarded cure.
- Substrate temperature must not be lower than 5 °C during installation and during the full 3 to 5-day cure of the floor.
- When using solvent containing materials in confined spaces, the applicator should use a NIOSH/MSHA approved self-contained breathing apparatus with a full-face piece operated in a positive pressure mode.
- Mask out all areas to be protected. Remove masking tape before the epoxy cures.
- Exhaust ventilation must be provided in enclosed or confined spaces.
- Air conditions and heat vents must be sealed to prevent solvents from escaping to other parts of the building.
- Never allow any mix of epoxy resin and curing agent to remain in the mixing container for a prolonged period of time. The reactions of the two components cause a heat build up. This in turn will cause the epoxy mix to solidify! Noxious fumes will be formed! If this occurs, vacate the area, remove

the container to the outside and ventilate the area before returning to work.

- Use only spark-proof equipment in the area during installation and cure.
- Have CO₂ or other dry chemical fire extinguishers available at the job site.
- Follow all cautionary direction as printed on container labels.

TECHNICAL ASSISTANCE

Please contact International Chem-Crete Corporation for Technical Personnel.

WARRANTY

LIMITED WARRANTY: International Chem-Crete Inc. warrants that, at the time and place we make shipment, our materials will be of good quality and will conform to our published specifications in force on the date of acceptance of the order.

DISCLAIMER: The information contained herein is included for illustrative purposes only and, to the best of our knowledge, is accurate and reliable. International chem-crete Inc. is not under any circumstances liable to connection with the use of information. As International Chem-Crete Inc. has no control over the use to which others may put its products, it is recommended that the products be tested to determine the suitability for specific applications and/or our information is valid in a particular circumstances. Responsibility remains with the architect or engineer, contractor and owner of the design, application and proper installation of each product. Specifier and user shall determine the suitability of the product for specific application and assume all responsibility in connection therewith. AA/0206.

Distributed By:



ConAsph
Environmental Coatings Ltd.

#8 6630 71 Street
Red Deer, AB T4P 3Y7
Email: conasph@conasph.ca

Phone: 403-341-6900
Fax: 1-877-787-1605
Toll Free: 1-877-630-8784