

CHEMCLAD® GP

General Purpose High Performance Polymer Composite Coating System For Industrial / Commercial Applications In Standard Chemical Environments

- Outstanding Chemical Resistance
- Apply by Brush, Roller or Spray
- Unlimited Shelf Life
- 100% Solids
- Simple to Use
- Durable



CHEMCLAD® GP

provides extraordinary protection to machinery, equipment and structures in industrial environments.



Protects...

- Pipes
- Tanks
- Housings
- Pedestals
- Floors
- Containment Areas

CHEMCLAD® GP is a two component, 100% solids, high performance, general purpose polymer system used for creating an outstanding corrosion and chemical resistant protective coating on all types of equipment and structures.

CHEMCLAD® GP is simple to use. It mixes easily and can be applied by brush, roller or spray. It is available in different colors to simplify overcoating. This high gloss coating yields a surface that's not only functional, but also aesthetically pleasing. **CHEMCLAD® GP** is also available in 'safety yellow'.



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Technical Data

| | | |
|--------------------------------------|--|-----------|
| Volume capacity per kg. | 48 in ³ / 781 cc | |
| Mixed density | 0.044 lbs per in ³ / 1.28 gm per cc | |
| Coverage rate per kg. @ 6-7 mils. | 50 - 55 ft ² / 5 m ² | |
| Shelf life | Indefinite | |
| Volume solids | 100% | |
| Mixing ratio | Base | Activator |
| By volume | 5 | 2 |
| By weight | 3.6 | 1 |

Cure Times

| Ambient Temperature | Working Life | Touch Dry | Maximum Overcoating | Full Cure |
|---------------------|--------------|-----------|---------------------|-----------|
| 41°F 5°C | 110 min | 55 hrs | 96 hrs | 10 days |
| 59°F 15°C | 90 min | 24 hrs | 48 hrs | 6 days |
| 77°F 25°C | 70 min | 16 hrs | 24 hrs | 4 days |
| 86°F 30°C | 55 min | 8 hrs | 16 hrs | 3 days |

Physical Properties

| Typical Values | Test Method |
|---|------------------------------------|
| Tensile Shear Adhesion | |
| Steel 3600 psi | 253 kg/cm ² ASTM D-1002 |
| Aluminum 2600 psi | 182 kg/cm ² ASTM D-1002 |
| Copper 2300 psi | 161 kg/cm ² ASTM D-1002 |
| Stainless steel 3300 psi | 232 kg/cm ² ASTM D-1002 |
| Elcometer Adhesion - to properly prepared cementitious surfaces is greater than the cohesive strength of the substrate. | |

CHEMCLAD® P4C Technical Data

| | | | |
|---|--------------|---------------------|--|
| Theoretical coverage rate per kg. @ 3 mils. | | | 70 - 80 ft ² / 6 - 7 m ² |
| Mixing ratio | Base | Activator | |
| -by volume | 2 | 5 | |
| -by weight | 2 | 5 | |
| Ambient Temperature | Working Life | Minimum Overcoating | Maximum Overcoating |
| 41°F 5°C | 120 min | 16 hrs | 48 hrs |
| 59°F 15°C | 75 min | 12 hrs | 36 hrs |
| 77°F 25°C | 60 min | 8 hrs | 24 hrs |
| 86°F 30°C | 50 min | 5 hrs | 16 hrs |

Chemical Resistance

| | | | |
|--------------------------------------|----|------------------------------------|----|
| Acetic acid (0-10%) | G | Methyl ethyl ketone | NR |
| Acetic acid (10-20%) | NR | Naptha | EX |
| Acetone | NR | Nitric acid (0-10%) | G |
| Aviation fuel (JP-4) | EX | Nitric acid (10-20%) | G |
| Butyl alcohol | EX | Phenol | NR |
| Calcium chloride | EX | Phosphoric acid (0-10%) | G |
| Carbon tetrachloride | G | Phosphoric acid (10-20%) | G |
| Chloroform | NR | Potassium chloride | EX |
| Crude oil | EX | Propyl alcohol | EX |
| Diesel oil | EX | Skydrol | G |
| Ethyl alcohol | G | Sodium chloride | EX |
| Gasoline | EX | Sodium hydroxide | EX |
| Heptane | EX | Sulfuric acid (0-10%) | EX |
| Hydrochloric acid (0-10%) | EX | Sulfuric acid (10-20%) | EX |
| Hydrochloric acid (10-20%) | EX | Toluene | NR |
| Kerosene | EX | Trichlorethylene | NR |
| Methyl alcohol | G | Xylene | G |

EX - Suitable for most applications including immersion. G - Suitable for intermittent contact, splashes, etc. NR- Not recommended

Using CHEMCLAD® GP

Surface Preparation - CHEMCLAD® GP should only be applied to clean, firm, dry, and well roughened surfaces.

1. Remove all loose material and surface contamination.
2. Depending on the surface, solvent clean and / or remove contamination by abrasive blasting, steam cleaning, pressure washing or other suitable means.
3. New concrete should be allowed to cure for a minimum of 28 days prior to treatment. Insure that all laitance is removed from cementitious surfaces before applying the CHEMCLAD® system.
4. After removing all surface and sub-surface contamination, flush the area as necessary and allow to dry completely.
5. Metallic surfaces should be abrasive blasted to achieve a 'white metal' finish and a 3 mil profile. Commence the application of the CHEMCLAD® GP immediately upon completion of surface preparation and before any oxidation takes place.

Priming Concrete Surfaces - Prior to applying CHEMCLAD® GP to concrete and / or cementitious substrates, the surface should be treated with CHEMCLAD® P4C to seal the surface, minimize out-gassing and insure that optimum adhesion is obtained. After mixing, CHEMCLAD® P4C should be applied using a brush or roller at the rate of 70 - 80 square feet (6 - 7 square meters) per kilogram to achieve the recommended film thickness of 3 mils.

Note: Coverage will be reduced on very rough and / or porous surfaces.

The application of the CHEMCLAD® GP may commence when the applied CHEMCLAD® P4C reaches its minimum overcoating time and should be completed within its maximum overcoating time as listed in the chart on the left. For additional details concerning the use of the CHEMCLAD® P4C, please refer to the instructions supplied with the material.

Mixing & Application - CHEMCLAD® GP is supplied in pre-measured quantities to simplify mixing of full units. Simply pour the contents of the Activator container into the Base container; then, using the supplied stirrer or a paint mixer in an electric drill, mix thoroughly until a uniform, streak-free color is achieved. Apply the mixed CHEMCLAD® GP to the prepared (and / or primed) surface using a brush, squeegee or roller. As a guide, a coverage rate of 50 - 55 square feet (5 square meters) per kilogram should result in an applied thickness of approximately 6 - 7 mils on a relatively smooth surface. However, shape, contour, porosity, roughness, etc. will affect the coverage.

Note: Since a minimum of two coats are recommended, CHEMCLAD® GP is available in different colors to simplify overcoating.

Cleaning of Equipment - Wipe excess material from tools immediately. Use acetone, MEK, isopropyl alcohol or similar solvent as needed.

Health & Safety - Every effort is made to insure that ENECON® products are as simple and safe to use as possible. Normal industry standards and practices for housekeeping, cleanliness and personal protection should be observed. For further information and guidance, please refer to the detailed SAFETY DATA SHEETS (SDS) supplied with the material and also available on request.

Technical Support - The ENECON® engineering team is always available to provide technical support and assistance. For guidance on difficult application procedures or for answers to simple questions, call your local ENECON® Fluid Flow Systems Specialist or the ENECON® Engineering Center.

All information contained herein is based on long term testing in our laboratories as well as practical field experience and is believed to be reliable and accurate. No condition or warranty is given covering the results from use of our products in any particular case, whether the purpose is disclosed or not, and we cannot accept liability if the desired results are not obtained.

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