



CHEM HI-TECH EPOXY

Chemical Resistant Epoxy (Solvent Free Coatings)

Data Sheet



A PROJECT of



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(SINCE 2009)

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PRODUCT DESCRIPTION

CHEM HI-TECH EPOXY is a high build, 100% solids, solvent free, and poly-amine epoxy system. This product is designed especially for concrete floor application where maximum durability and chemical resistance are factors. This high gloss product is available in clear and colour formulations.

Uses:

- Existing concrete floors subjected to heavy traffic.
- The resin serves as an adhesive within the slab to further strengthen concrete floors, particularly around minor cracks, crevices and weak spots.
- Concrete floors requiring a smooth, nonporous surface.
- Work areas needing improved aesthetics.
- The high gloss finish is smooth, durable and easy to clean, aiding in reducing maintenance cost.

Recommended for:

Industrial warehousing, paper mills, automotive garages, canneries, packing plants aircraft hangars, wastewater treatment plants, ice and roller skating rinks, prison floors, parking garages.

Benefits:

- Virtually odour free during installation and curing.
- Equipment can be cleaned with common solvents.
- The final appearance of the coated concrete is a smooth high gloss finish.

TECHNICAL DATA

CHEM HI-TECH EPOXY is a 100% solids, solvent free and poly-amine epoxy system. It is a floor coating.

| PROPERTY | VALUE | |
|---------------------------|---------------------------|-----------------------------|
| Viscosity | | 2400 cps |
| Weight per Gallon (Mixed) | | 10.77 /# (base+hardener) 16 |
| Solids by Weight | | 100/% 17 |
| S G. @ 20°C | | 1.3 18 |
| Solids by Volume | | 100/% 19 |
| Initial Gloss @ 60°C | High 20 | |
| | Dry Film Thickness | as Desired 21 |
| Flash Point | None | |
| Flexibility | Pass | |
| Conical Mandrel | | ¼ inches |
| Pencil Hardness Min | 3H-6H Cured fully | |
| Crosshatch Adhesion | %age/min 100/% | |
| Lead / Bleeding | None / None | |

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- **A.I.M.** Category: Floor Coatings.
- **VOC** Content Limit: 400 grams per liter.
- Authorised for use by the USDA.

Chemical Resistance:

CHEM Epoxy Colour Coating is resistant to: **alkalises, solvents, acids, salt solutions, water, fats and oils, halogens (moist), oxidising agents and fuels** (see corrosion chart supplies).

APPLICATION PROCEDURES AND INSTRUCTIONS

Primer: Concrete surface should be primed with Chem primer.

Surface Preparation: **CHEM HI-TECH EPOXY** is designed for installation over clean, dry textured concrete.

- **New Concrete:** The concrete should be cured with curing compound material or water cured for a minimum of 7 days. The concrete should be 28 days old and have a chance to dry out.
- **Old Concrete:** The concrete surface must be clean and dry. The preferred preparation method is by mechanical surface blasting; sandblasting or shot blasting. Acid etching may be used, but it must be done properly and safely.

Mixing Instructions:

- Thoroughly mix equal parts of A and B in a clean container for 5 minutes.
- Avoid whipping air into the mixture.
- No induction time is required.
- Pot life of mixed material is approximately 30-45 minutes at 20 °C .

Application:

- Apply by airless or conventional spray, brush, **high quality roller, lambs wool applicator or weight bar.**
- Apply in a uniform manner and maintain a **wet edge** to prevent lap marks.
- If a second coat is applied, do so at a 90° angle from the first coat
- **Re-coat window is 24-48 hours.**

Coverage:

- Coverage of **20-30 square feet per kg with two coats** will leave a coating 150 micron thick.
- One coat will cover adequately. A second coat may be necessary to fill pin holes from entrapped air.
- A test patch should be applied to determine proper results and coverage rates.

Drying Time (at normal temperature 72°F):

- **Dry:** Approximately 4 hours.
- **Light foot traffic:** Allow 24 hours.
- **Normal foot traffic:** Allow 36 hours.
- **Wheeled traffic:** Allow 48 hours.
- **Exposure to chemicals:** Allow 72 hours.

LIMITATIONS AND PRECAUTIONS

Limitations:

- Concrete must be **completely cured and dry** before application.
- Do not apply over surfaces that are **frozen, structurally** unsound or where water or water vapour is being transmitted through the concrete.
- Do not use on asphalt.
- **CHEM HI-TECH EPOXY** is designed for indoor use. It may yellow slightly and/or chalk when used outdoors.

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- **CHEM HI-TECH EPOXY** is not recommended for vertical surfaces.
- Do not use once pot life has expired.
- Do not mix freshly catalysed material with previous catalysed material.

Precautions:

- Vapour harmful. May affect the brain or central nervous system causing dizziness, headache or nausea.
- Causes eye, skin, nose, and throat irritation. May cause allergic skin reaction. Harmful if swallowed.
- Use only with adequate ventilation.
- If you experience eye watering, headaches or dizziness, increase fresh air or wear respiratory protection.
- Avoid contact with eyes and skin.
- Before using, read the Material Safety Data Sheet (MSDS) for complete safety information. MSDS is available from **CHEMCONS** Distributors, the **CHEMCONS** Office or the **CHEMCONS** Website.

Clean Up:

- Clean all equipment and tools with Any solvent.

AVAILABILITY AND WARRANTY

Availability:

- **CHEM HI-TECH EPOXY** is available through **CHEMCONS** Distributors. Contact **CHEMCONS** products for the nearest distributors.
- **Packaged in 1.0 kg, 2.5 /kg's /& 5/kg's packs.**

Warranty:

- This product is warranted to be free of defects in material and workmanship, and conform to **CHEMCONS Construction Chemicals** ("CHEMCONS") quality control standards.
- **CHEMCON'S** sole responsibility shall be to replace that portion of the product which proves to be defective.
- Any warranty claim must be made within six (6) months from the date of the claimed breach.
- This limited warranty applies only if the product was properly installed, used according to all instructions and was properly stored prior to use