

**DESCRIPTION:**

The CHEM-WALL WC Mat Lay Up System is a vertical grade polymer surfacing system installed using sequentially applied layers of 100% solids, 2-component epoxy coatings with a fiberglass veil laminated in between. This is a medium to heavy duty wall surfacing system designed to fully seal and protect a wide variety of vertical or overhead substrates. The finished system will provide an impermeable, impact resistant, cleanable, highly durable, seamless, high gloss finish that can be easily applied with basic installation equipment. The WC Mat Lay Up System meets USDA and FDA guidelines for use in federally inspected facilities. It is able to be field pigmented in any of ROCK-TRED Standard Colors.

**RECOMMENDED USES:**

The CHEM-WALL WC Mat Lay Up System is recommended as a high performance vertical and overhead finish for moderate/heavy duty areas such as medical facilities, clean rooms, research labs, wash down areas, animal holding areas, food processing areas and shower stalls. This system is a superior replacement for FRP pre-fab sheet systems since it is monolithic, easier to clean and easier to repair or renew once worn. It should be installed wherever a watertight/seamless, highly durable wall system is needed to withstand moderate impact, frequent wash downs, moderate thermal shock, etc.

**SYSTEM FEATURES:**

- 100% solids epoxy base and 100% solids cycloaliphatic epoxy finish coatings
- Very low odor – no solvent odors
- Quick installation time and return to service
- Good chemical resistance
- Good abrasion resistance
- Easy product mixing ratios
- Easy application methods
- Standard Gloss finish, but optional finish coats available to change to Satin or Matte finishes.
- Applicable over many structurally stable substrates
- Can be installed using alternative finish coats to provide decorative flake variations, high heat and/or chemical or UV resistance as required.

**BASIC SYSTEM INSTALLATION STEPS:**

1. Properly clean and profile substrate to accept the CHEM-WALL WC Mat Lay Up System.
2. Apply clear primer coat of POXI-ROCK Primer by brush/roller or airless spray equipment at approximately 8 mils. If applying to virgin CMU substitute 2 successive coats of CHEM-WALL BLOCK FILLER at 12-15 mils per coat for the POXI-ROCK PRIMER coat.
3. Perform any required patching using appropriate ROCK-TRED recommended epoxy patching materials.
4. Apply field pigmented CHEM-WALL BLOCK FILLER by brush/roller or airless spray equipment at approximately 14-16 mils.
5. Immediately embed ROCK-TRED's FIBER-MAT into wet base coat. The mat can be oriented vertically or horizontally depending on job site needs. Overlap the seams allowing just enough room to make a double cut through both mats. Using plastic tools smooth the mat into base coat making sure to eliminate air pockets, excess base coat and wrinkles in the mat.
6. Using a razor make a double cut through the overlapped mats. Remove trimmed pieces of mat and re-tool along vertical splice to re-embed mats in base coat. Razor cut to trim any excess mat from both the top and bottom terminations.

# CHEM-WALL WC Mat Lay Up System DATA SHEET

7. Allow base coat with mat to “tack up” and apply second coat of field pigmented CHEM-WALL BLOCK FILLER at approximately 12-14 mils. Back roll coating to create uniform finish.
8. After base layers are dry sand surface as needed and remove any sanding dust. Do not exceed 24 hour recoat window.
9. Apply one or two successive finish coats of field pigmented CHEM-WALL SEALER at approximately 8-10 mils per coat. Sand and remove sanding dust between coats as needed.

## SYSTEM COMPONENT PRODUCTS:

- POXI-ROCK PRIMER
- CHEM-WALL BLOCK FILLER
- CHEM-WALL SEALER
- ROCK-TRED FIBER-MAT
- ROCK-TRED UNIVERSAL COLORANT

## OPTIONAL SYSTEM COMPONENT PRODUCTS:

- CHEM-WALL BLOCK FILLER for standard pre-patching and/or pre-filling porous substrates such as bare CMU.
- RQP 100% solids two-component epoxy rapid setting repair paste for horizontal, vertical or overhead surface imperfection repair and small crack patching
- Decorative Flakes for a Random or Full Flake Finish. Install Flakes into the final color coat. Random Flake finishes can be sealed with any of the CHEM-THANE products. Full flake finishes should be sealed with a thicker coating such as CHEM-ROCK HV or CHEM-THANE P50 or P100. Refer to the WC EP System for more information on decorative finish options for ROCK-TRED vertical systems.

## OPTIONAL ADDITIONAL FINISH COATS:

- CHEM-THANE P-100/P-50 – low odor, highly UV resistant, water clear polyaspartic coatings
- CHEM-THANE 509 - solvent carried, aliphatic polyurethane coating available in Gloss or Satin.

- CHEM-THANE WB Gloss, Satin or Matte - UV stable, anti-graffiti, zero VOC/low odor

## FOR BEST RESULTS:

- Recommended for interior use only unless finished with appropriate UV resistant finish coatings such as solid color P-100, P-50 or Chem-Thane 509.
- New concrete and mortar must cure for at least 28 days @ 70°F.
- DO NOT thin component products unless otherwise indicated on Tech Data Sheets.
- DO NOT use when humidity exceeds 70% in work area.
- DO NOT allow material to puddle during application.
- Allow each coat to dry tack-free before recoating unless otherwise indicated on Tech Data Sheets.
- Apply each coat within 24 hours of previous coat.
- DO NOT apply to structurally unsound, wet or contaminated surfaces.
- NOTE that CHEM-WALL Sealer comes in a WHITE COLOR TINT BASE. When field pigmented its final color will be slightly lighter than the standard ROCK-TRED Colors.

## SURFACE PREPARATION:

The substrate must be clean, dry and structurally sound. Mechanically remove dust, laitance, grease, curing compounds, waxes, foreign particles, disintegrated or soft base materials and any previously applied potentially incompatible coatings. Create a surface profile on the substrate by either sanding or diamond grinding.

## ADDITIONAL REFERENCE MATERIALS:

- CHEM-WALL WC Mat Lay Up System AIA Specification
- Component Product Technical Data Sheets
- Component Material Safety Data Sheets
- ROCK-TRED’s Surface Preparation Guide
- ROCK-TRED’s Floor/Wall Maintenance Instructions

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