

COMPOSEAL GOLD antifracture waterproof membrane is 40 mil thicknesses and is sold in rolls of 5 ft. x 90 ft. and 5 ft. x 50 ft. and is available at tile distributors across the country.



Crack Isolation: Radiant heated floor, Sun Valley, ID



Waterproof Crack Isolation: Exterior deck, Malibu, CA



Waterproofing: Kitchen, Chi Chi's Restaurant, Pittsburgh, PA

COMPOSEAL **GOLD**

40 Mil Waterproof Membrane
Bondable: Fracture Resistant
Protects Floors and Walls Under Thin-Set Tile
Installations from Substrate Cracks and
Moisture Migration.

- ✓ The industry's first heat fused 3-ply membrane. Gives unsurpassed double-protection against common shrinkage cracks found in residential and commercial construction, and prevents water damage and moisture migration.
- ✓ For new construction or renovations using ceramic tile, marble, brick or stone.
- ✓ Excellent bonding strength.
- ✓ Significant labor cost savings with faster, one-step seaming.
- ✓ Superior chemical, mildew, fungus resistance.
- ✓ Ideal for interior and exterior floors, walls and decks over substrates of concrete, cementitious backer units, exterior grade plywood protected by sloped mortar bed or fill, and thick mortar settings beds (mud).

Meets ANSI A118.10-1993 standard for Load Bearing, Bonded, and Waterproof Membranes.



Made in USA

by
Compotite Corporation
Los Angeles, CA
1-800-221-1056

MANUFACTURER

Compotite Corporation has been supplying shower pans to the plumbing and tile industries since 1938. COMPOSEAL Blue Vinyl Shower Pan, job proven in hundreds of thousands of installations nationwide since 1979 with no reported material, failures, provides the basis for COMPOSEAL GOLD.

The latest American Heat-fusion technology is used to apply a bondable surface to the COMPOSEAL membrane that will not delaminate.

COMPOSEAL products are manufactured in the USA.

PRODUCT PRESENTATION

COMPOSEAL GOLD is a 3-ply, 40 mil gauge crack isolation waterproofing sheet membrane for use in bonded direct thin-set tile and marble installations. (See detail, this page) COMPOSEAL GOLD is manufactured in 60" widths packaged in 90 ft. and 50 ft. rolls.

Crack Suppression Capability

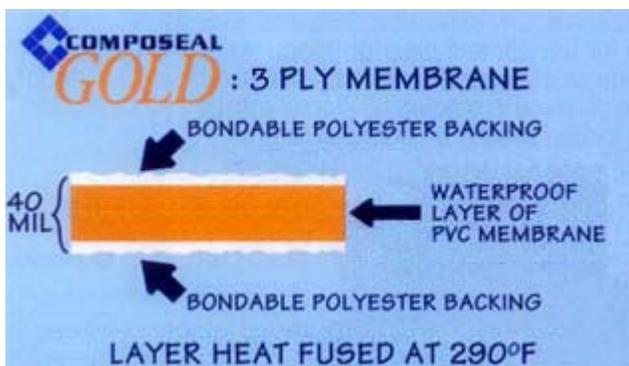
Independent laboratory tests, supervised by the Ceramic Tile Institute of Los Angeles, conducted on COMPOSEAL GOLD over a split substrate using the load-bearing Robinson Floor Tester, confirm that COMPOSEAL GOLD has superior strength and ability to protect a properly installed thin-set tile installation from the most common cracks found in residential and commercial construction.

Bonding Direct Capability

COMPOSEAL GOLD's two outer layers of non-woven polyester heat-fused at 290° F to the inner PVC membrane allows direct-bonding of COMPOSEAL GOLD to both the substrate below and the tile above. The heat-fusion manufacturing process prevents delamination of the polyester backing from the core.

Waterproofing Capability

The well-proven COMPOSEAL PVC Shower Pan Liner makes up the inner layer of COMPOSEAL GOLD and gives the same waterproofing protection.



COMPOSEAL GOLD may be used in thin-set **Gang Showers**, provided membrane is sloped to drain weep holes, and thin-set **Exterior Decks** where substrate material is properly protected by sloped mortar fill and drainage has been specifically designed for a thin-set installation. (See details, figure 4 and TCA method F122.) **We strongly recommend a thick-set reinforced mortar bed for all showers and roof decks, (Methods F103 or F121.)**

Limitations

The use of COMPOSEAL GOLD as a crack isolation membrane is limited only by the size and type of crack to be bridged. The most common cracks are from concrete slab shrinkage, which COMPOSEAL GOLD is specifically engineered to isolate. Compotite Technical Report #92-1 details other types of cracks and suggested remedies.

COMPOSEAL GOLD is not intended to bridge expansion joints, but can provide continuous waterproofing through expansion joints. (See details, figure 2.)

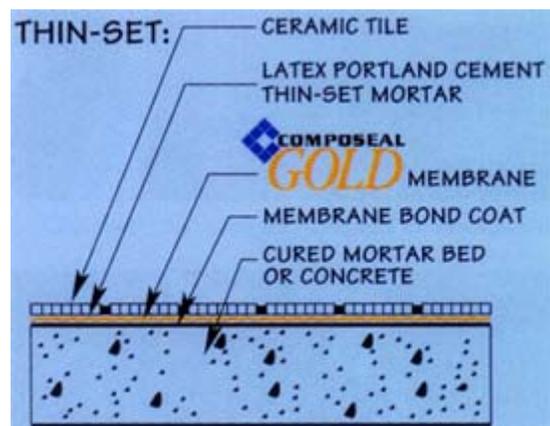
COMPOSEAL GOLD cannot be used as a liner for pools containing fish or water plants.

COMPOSEAL GOLD cannot be bonded direct to any material adversely affected by water; plywood substrates (or pressure treated or creosoted lumber) must be covered with CBU's (Cementitious Backer Units) or 1" min. mortar fill before installing COMPOSEAL GOLD.

COMPOSEAL GOLD cannot be used with asphalt or bituminous based products.

OVERALL PRODUCT, IN PLACE

The powerful protection of COMPOSEAL GOLD against cracks and water damage generally adds less than 1/8" to 1/4" to the overall thickness of the thin-set installation.



USES, APPLICATIONS

COMPOSEAL GOLD is used as a concealed crack isolation (anti-fracture) and/or waterproof membrane under thin-set installations of ceramic and marble tile, terrazzo and brick; for new construction, remodeling or repair, residential and commercial, in kitchens, restaurants, resident entries, steam rooms, radiant heated flooring, shopping malls, etc. Negligible shrinkage at extreme temperatures, -20° F to 212° F, combined with a low water vapor permeability makes COMPOSEAL GOLD especially ideal for **Steam Rooms**, steam cleaned floors, and **Radiant Heated Flooring**.

COMPOSEAL GOLD is easily welded on the jobsite to COMPOSEAL Shower Pan Liner in transitional areas from a thick mortar setting bed to thin-set installations where waterproofing is required, such as in **Handicapped Showers**. (See details, figure 5.)

ASSEMBLY, INSTALLATION

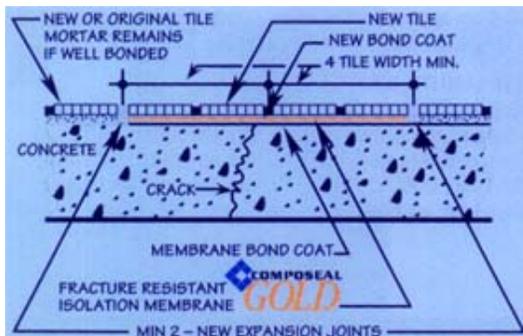


Figure 1. Crack repair with tile work; fracture resistant isolation membrane (refer to Technical Report #92-1)

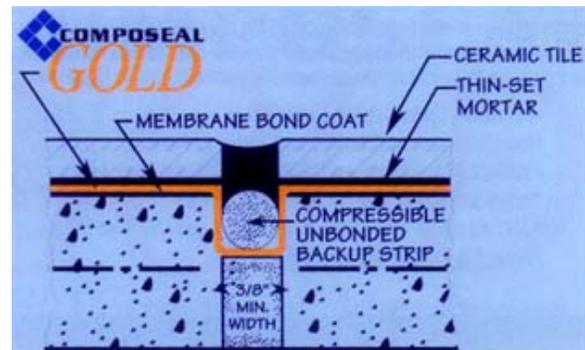


Figure 2. Waterproof expansion joint 3/8 min. width

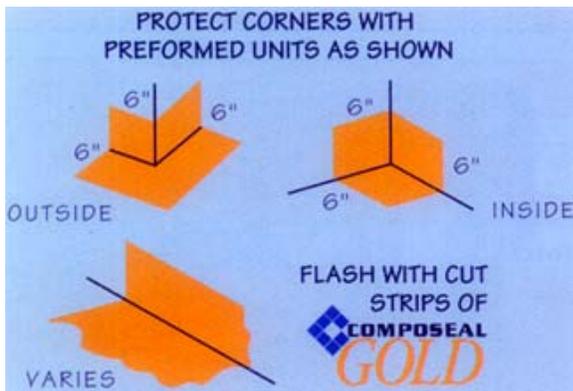


Figure 3. Gold Flashing: Can be placed over metal flashings

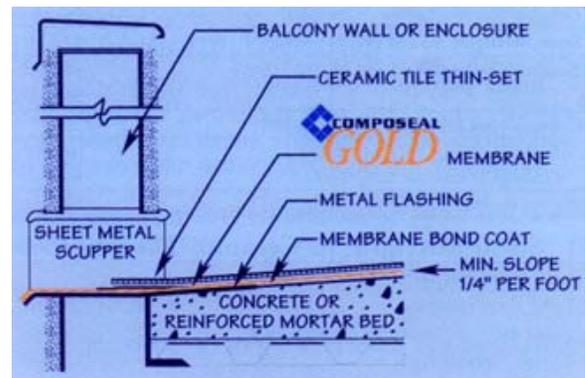


Figure 4. Balcony or deck scupper drain

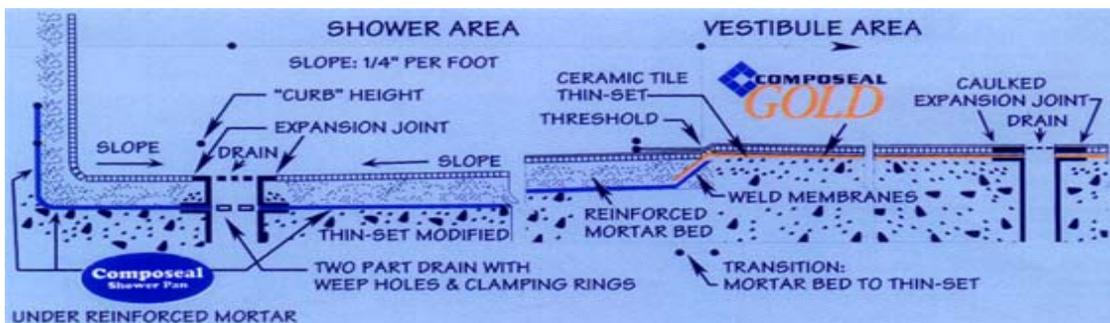


Figure 5. Transition from mortar bed to thin-set and transition for disabled access

COATINGS, SURFACES

Substrate Bond Coat

Install COMPOSEAL GOLD sheets using either:

1. Any latex portland cement mortar complying with ANSI A118.4 whether containing a dry latex, or liquid latex added at the job according to manufacturer's directions. A min 3/16" V-notch trowel is recommended so as to spread the bond coat to provide complete coverage and contact.
or
2. Rapid setting mortar: Use of a rapid setting latex mortar to bond COMPOSEAL GOLD to substrate allows same day setting of tile above the membrane. Use any rapid setting latex mortar complying with ANSI A118.4 and follow manufacturer's instructions carefully.

Tile Setting Bed

Tile is bonded direct to COMPOSEAL GOLD using the thin-set method (ANSI A108.5) in accordance with TCA Handbook recommendations, and using ANSI A118.4 latex portland cement mortar. A thick-setting mud bed (ANSI A108.1) may also be used.

MATERIALS, FINISHES

Seam Welding: COMPOSEAL GOLD is welded with COMPOSEAL Flexible PVC solvent cement applied generously through scrim, and, after 2 minute open time, gives instant contact strength.
Corners: Pre-formed COMPOSEAL GOLD inside and outside corners are available for waterproofing jobs.

TECHNICAL SUPPORT

The Tile Institute of America (TIA) provides general consultation for installations requiring crack isolation protection. Compotite Corporation provides technical support for users of COMPOSEAL GOLD sheet membrane and related products. Call 800-221-1056 for the following technical literature available from Compotite Corporation:

Flashings: COMPOSEAL GOLD is bonded to metal flashings, drains, protrusions, etc. with COMPOTITE ELASTISEAL.

CODE ACCEPTABILITY, CERTIFICATION

COMPOSEAL GOLD meets the ANSI A118.10 standard for Load Bearing Bonded Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installations, and all ASTM D4551 Test requirements for 40 mil flexible PVC waterproof membrane.
COMPOSEAL GOLD is also listed on the Ceramic Tile Institute "Tested Material List" and recognized by the Tile Institute of America.

Warranty

COMPOSEAL GOLD is warranted against failure for any reason, and, in the event of failure, replacement material will be supplied at no charge. This warranty applies only to the membrane itself and not to the manner of installation over which we have no control.

AVAILABILITY, COST

COMPOSEAL GOLD and its ancillary products are available through quality ceramic tile dealers. For the name of your local Compotite Representative or stocking dealer, call 800 221-1056. COMPOSEAL GOLD can generally be shipped within three days from warehouse locations across the country.

[Test Results for ANSI A118.10 Standard for Load Bearing, Bonded, Waterproof Membranes for Thin-set Ceramic Tile and Dimension Stone Installations](#)

ADDITIONAL CTI TESTS	COMPOSEAL GOLD	MINIMUM STANDARD
Chemical Resistance: FHA 4900. Sect. 615-5	No effect and no water penetration	No effect and no water penetration
Indentation Resistance: FHA 4900.1/e	No water penetration	No water penetration
Puncture Resistance: FHA 4900.1	No water penetration	No water penetration
Folding Resistance: FHA 4900.1	No water penetration	No water penetration
Hydrostatic Pressure: ASTM D-751, A-1	116 psi	100 psi
Ozone Resistance: ASTM D1149	No crack, crazing or water penetration observed	
Gas Permeability (Methane): ASTM D1434	GTR: 231 .ml, Coeff: 3.6 barrier	
Volatility Test: ASTM D1203-89	.33% weight loss, no distortion	
Water Vapor Transmission: ASTM E 96-	WVT: 1.63 (g/m ² . d) Permeance: .14 (WVT/mm Hg x 10 ⁻²) BW	

- Tests for Material Properties performed by Law Engineering, Atlanta, Georgia; Truesdail Labs, Tustin, CA and Twining Labs of Southern California.



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