

Composeal *GOLD*

40 MIL - BONDABLE

CRACK ISOLATION & WATERPROOF MEMBRANE

FOR HIGH QUALITY THIN-SET TILE INSTALLATIONS ♦ PROTECTION FROM SUBSTRATE CRACKS & MOISTURE MIGRATION

- ♦ For New Construction or Renovations using Ceramic, Glass or Stone Tile.
- ♦ Superior Double-Protection isolates common shrinkage cracks found in residential and commercial construction from telegraphing to finished surface. Prevents water damage and moisture migration.
- ♦ Used for Interior and Exterior Floors and Walls Over Substrates of Concrete or Cement Backer Boards.
- ♦ Significant Labor Cost Savings with Fast and Quality Consistent Installation. Excellent Bonding Strength.
- ♦ Resistant to Mold, Fungus and Chemicals.



Meets **ANSI A118.12-2008** Standard for Crack Isolation Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation and **ANSI A118.10-2008** Standard for Load Bearing, Bonded, Waterproof Membranes for Thin-Set Ceramic Tile and Dimension Stone Installation



COMPOTITE CORPORATION
LOS ANGELES, CA • 1-800-221-1056



www.compotite.com



Compotite Corporation has been supplying shower pans to the plumbing and tile industries since 1938.

COMPOSEAL BLUE Shower Pan Membrane - Job proven in hundreds of thousands of installations nationwide since 1979 with no reported failures, provides the waterproof basis for COMPOSEAL GOLD.

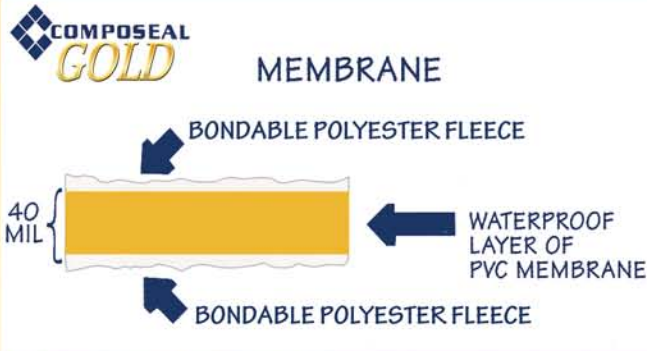


Figure 1 COMPOSEAL GOLD Membrane

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.

◆ APPLICATIONS

COMPOSEAL GOLD is used as a concealed crack isolation and/or waterproof membrane under thin-set installations of ceramic, glass or stone tile. Used for new construction, renovations and repairs in residential and commercial construction.

IDEAL FOR USE IN: bathrooms (showers and common areas) • kitchens (industrial and residential) • restaurants • bars hotels • residential entries • radiant heated floors • shopping malls/department stores • airports • outdoor tiled fountains & water features • exterior decks* • any tile installation above a concrete slab suspicious of water migration

COMPOSEAL GOLD can be used in thin-set shower receptors and gang showers* provided that the membrane is sloped to drain weep holes or an Integrated Bonding Flange is used (B422-13).

* A thick-set reinforced mortar bed for all showers and roof decks is recommended. (Methods F103 or F121)

COMPOSEAL GOLD is easily welded/seamed on the job site to COMPOSEAL BLUE shower pan in transitional areas from a thick mortar setting bed to a thin-set installation where waterproofing is required such as in curbless and handicapped showers. (Figure 3)

◆ CRACK ISOLATION & DIRECT BONDING CAPABILITY

Stringent Independent Testing (see test results on back page) confirm that COMPOSEAL GOLD has superior bonding strength and ability to protect a properly installed thin-set tile installation from the most common cracks found in residential and commercial construction.

COMPOSEAL GOLD is manufactured in 60" widths packaged in 50 and 100 foot rolls. All Compotite Products are **Manufactured in the USA.**

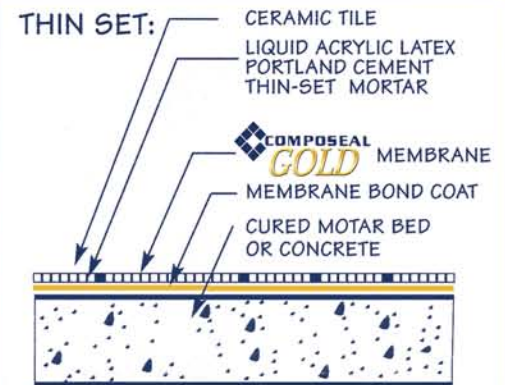


Figure 2 COMPOSEAL GOLD in Thin-Set Tile Installation

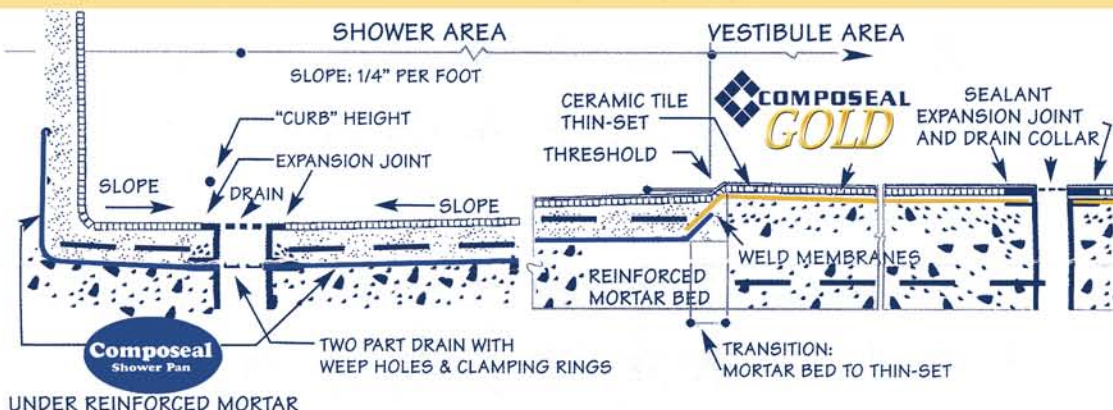


Figure 3
COMPOSEAL GOLD Transition from mortar bed to thin-set and transition for curbless showers & disabled access

◆ LIMITATIONS

The use of COMPOSEAL GOLD as a crack isolation membrane is limited by the size and type of crack to be bridged. The membrane is engineered to isolate horizontal in plane cracks most commonly caused by concrete slab shrinkage. 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 Figure 4)

COMPOSEAL GOLD **CANNOT BE:**

- used as a liner for pools containing fish or water plants.
- bonded directly to any material adversely affected by water. Plywood substrates (or pressure treated or creosoted lumber) must be covered by CBU's (Cement Backer Units) or 1" min mortar fill before installing membrane.
- used with asphalt or bituminous based products.



Figure 4 Waterproof expansion joint - 3/8 min. width

◆ BASIC INSTALLATION

SUBSTRATE BOND COAT

Install COMPOSEAL GOLD membrane using any Latex-Portland Cement (modified thin-set) Mortar complying with ANSI A118.4-2010 according to manufacturers directions.

For faster installation and with any substrate suspicious of water migration a rapid setting Latex-Portland Cement Mortar complying with ANSI A118.4-2010 should be used. Rapid setting mortar installation has the advantage of allowing same-day setting of tile above the membrane. Verify bonding mortar as to manufacturer's compatibility with membrane.

TILE SETTING BED

Tile is bonded directly to COMPOSEAL GOLD using the thin-set method in accordance with ANSI A108.5-2010 and using ANSI A118.4-2010 Latex-Portland Cement Mortar. A thick-setting wire reinforced mud bed in accordance with ANSI A108.1-2010 may also be used.

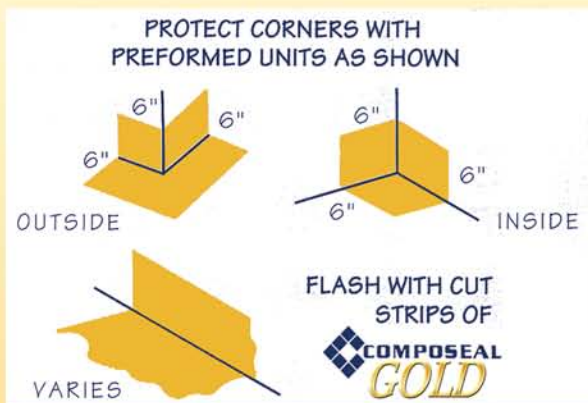


Figure 5 Gold Flashing: can be placed over metal flashings

◆ ACCESSORY INSTALLATION MATERIALS

SEAM WELDING: COMPOSEAL GOLD is welded with the Composeal Flexible PVC Solvent Cement applied generously through the fleece of both pieces to be welded. Once cement has become tacky the layers are ready to be placed together with a 2" overlap. Verify complete adhesion through membrane layers.

CORNERS: Pre-formed COMPOSEAL GOLD inside and outside corners are available for waterproofing jobs.

FLASHING AND SEALANTS: COMPOSEAL GOLD is bonded to metal flashings, drains, protrusions etc. with Compotite Elastiseal or a 100% mold/mildew resistant silicone.

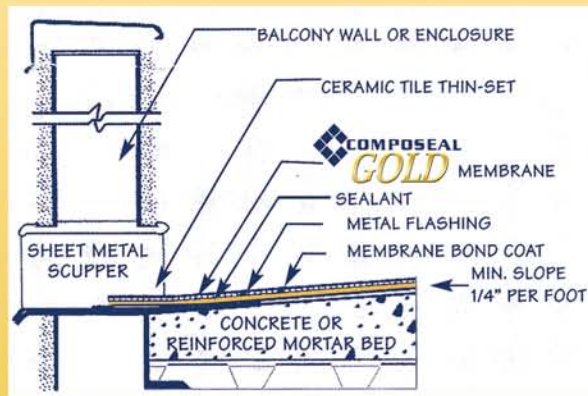


Figure 6
Balcony or deck
scupper drain

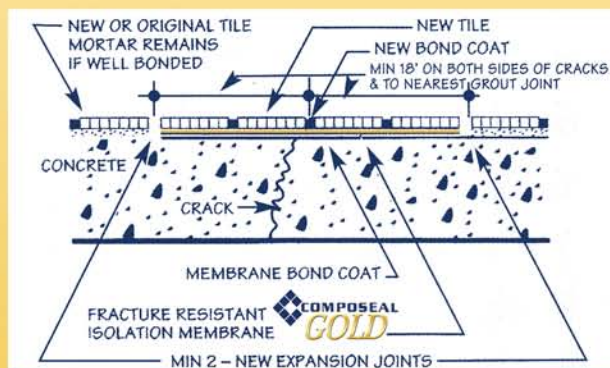


Figure 7
Crack Repair using
COMPOSEAL
GOLD anti fracture
membrane (refer
to technical report
#92-1)

◆ TECHNICAL SUPPORT:

The TCNA (Tile Council of North America) Handbook for Ceramic, Glass and Stone Tile Installation provides instructions and guidelines for installations requiring crack isolation protection. Composite Corporation provides technical support for installers of COMPOSEAL GOLD and related products. Refer to our website at www.composite.com or call our main office at 800-221-1056 for additional technical literature and installation materials including written brochures and DVD's. COMPOSEAL GOLD and its accessory products are available through quality ceramic tile distributors. For information about your local Composite Representative call 800-221-1056 or consult our website at www.composite.com.

◆ WARRANTY:

COMPOSEAL GOLD is warranted against failure for any reason and in the case of failure, replacement material will be supplied at no charge. This warranty does not cover improper installation over which we have no control.

COMPOSEAL GOLD

Test Results

ANSI A118.10
Minimum Standard

ANSI A118.12 Minimum
Standard Performance

I. TESTS FOR MATERIAL PROPERTIES

Fungus: Micro-organism Resistance

Seam Strength: ASTM D-751

Breaking Strength: ASTM D-752

Dimensional Stability: ASTM D-1204

ASTM D-1204, - 15°F to 158°F
% change at extreme temperature

Waterproofness: ASTM D-4068, A2

II. SHEAR STRENGTH TO CERAMIC TILE AND CEMENT MORTAR

Shear Bond Strength: ASTM C-482

7 Day Shear Strength

7 Day Water Immersion Shear Strength

4 Week Shear Strength with no Deflection

at 0.0625 in (1/16 in) Deflection

12 Week Shear Strength

100 Day Water Immersion Shear Strength

Accelerated Aging Shear Strength with no Deflection

at 0.0625 in (1/16 in) Deflection

III. TOTAL SYSTEM PERFORMANCE FOR CRACK ISOLATION

Point Load Test

ROBINSON FLOOR TESTER: ASTM C-627

No Substrate Crack

Latex Modified Mortar Bond Coat-2" Tiles

.002" to .008" Split to Simulate Substrate Crack

Latex Modified Mortar Bond Coat-2" Tiles

System Crack Resistance Test Type "D" Tiles

IV. ADDITIONAL TESTS

Water Vapor Transmission

ASTM E96-10 (standard test for WVT)

ASTM E96-12 (@90%RH for Commercial Steam Rooms under continuous use)

Chemical Resistance: FHA 4900. Sect.615-5

Indentation Resistance: FHA 4900. 1/e

Puncture Resistance: FHA 4900.1

Folding Resistance: FHA 4900.1

Hydrostatic Pressure: ASTM D-751, A-1

- Tests for Material Properties performed by Law Engineering, Atlanta, GA and the Twining Labs of Southern California
- System Performance Tests performed by QAI Labs, Tulsa, OK
- Test for Shear Bond Strength performed by QAI Labs, Tulsa, OK and the Tile Council of America, Los Angeles, CA
- ASTM D4551 Test Results also available (IAPMO R&T Labs-File #2225)



355 Glendale Blvd. • Los Angeles, CA 90026
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50 MIL - BONDABLE

SOUND REDUCTION MEMBRANE

CRACK ISOLATION & WATERPROOF

CONTROLS SOUND TRANSMISSION IN HIGH QUALITY THIN-SET TILE INSTALLATIONS
PROTECTS FROM SUBSTRATE CRACKS & MOISTURE MIGRATION

From the Makers of COMPOSEAL GOLD Crack Isolation & Waterproof Membrane and COMPOSEAL BLUE Vinyl Shower Pan, supplying the ceramic tile industry since 1938.

COMPOSEAL WHITE GOLD was introduced by Compotite in 1998 to provide sound control for above grade thin-set ceramic, glass or stone tile installations. COMPOSEAL WHITE GOLD is manufactured in a 60" width and packaged in 40 ft. and 100 ft. rolls.

◆ SOUND REDUCTION CAPABILITY

COMPOSEAL WHITE GOLD provides a sound rating of IIC 66 and STC 66 in above grade ceramic tile installations over 6" concrete slab floors above a suspended ceiling.

◆ CRACK ISOLATION & DIRECT BONDING CAPABILITY

COMPOSEAL WHITE GOLD performs equally or better than the superior performance record of COMPOSEAL GOLD 40 mil Crack Isolation Waterproof membrane.

◆ APPLICATIONS

COMPOSEAL WHITE GOLD is used as a concealed sound reduction and/or crack isolation and waterproof membrane under thin-set installations of ceramic, glass or stone tile in new construction, renovation or repair in residential and commercial projects.

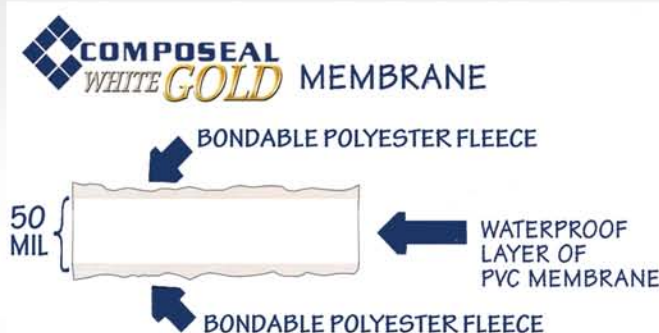


Figure 1 COMPOSEAL WHITE GOLD Sound Reduction Membrane

Negligible shrinkage at extreme temperatures combined with low water vapor permeability makes COMPOSEAL WHITE GOLD especially ideal for sound control on radiant heated flooring and steam cleaned floors.

◆ LIMITATIONS

When COMPOSEAL WHITE GOLD is used for sound reduction and waterproofing, such as in showers, or on bathroom and kitchen floors, it cannot be bonded directly to any material adversely affected by water: plywood substrates must be covered with 1-1/4" wire reinforced mortar bed or cementitious backer units before bonding the COMPOSEAL WHITE GOLD.

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



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The powerful Sound Reduction and Crack Isolation protection provided by COMPOSEAL WHITE GOLD in above grade tile installations adds less than 1/8" to 1/4" to the overall thickness of the thin-set installation, and less than 1/3 lb. per sq. ft. to the overall weight.

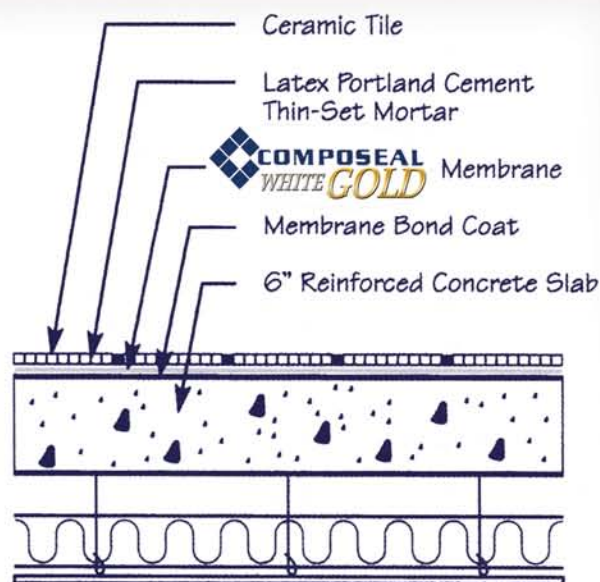


Figure 2 COMPOSEAL WHITE GOLD in thin-set tile installation over 6" reinforced concrete slab above suspended ceiling.

◆ BASIC INSTALLATION

SUBSTRATE BOND COAT

Install COMPOSEAL WHITE GOLD membrane using any Latex-Portland Cement (modified thin-set) Mortar complying with ANSI A118.4-2010 according to manufacturers directions.

For faster installation and with any substrate suspicious of water migration a rapid setting Latex-Portland Cement Mortar complying with ANSI A118.4-2010 should be used. Rapid setting mortar installation has the advantage of allowing same-day setting of tile above the membrane. Verify bonding mortar as to manufacturer's compatibility with membrane.

TILE SETTING BED

Tile is bonded directly to COMPOSEAL WHITE GOLD using the thin-set method in accordance with ANSI A108.5-2010 and using ANSI A118.4-2010 Latex-Portland Cement Mortar. A thick-setting wire reinforced mud bed in accordance with ANSI A108.1-2010 may also be used.

◆ ACCESSORY INSTALLATION MATERIAL

ACOUSTICAL SEALANT is required at the perimeter of the floor, and at any penetration of the floor inside the perimeters. There should be a 3/8" wide joint at these locations, that continues through tile work. Neither tile nor setting mortar should touch the walls or protruding pipes, etc. However, in waterproofing installations, the COMPOSEAL WHITE GOLD membrane should be extended 6" min. up the wall.

SEAM WELDING: COMPOSEAL WHITE GOLD is welded with the Composeal Flexible PVC Solvent Cement applied generously through the fleece of both pieces to be welded. Once cement has become tacky the layers are ready to be placed together with a 2" overlap. Verify complete adhesion through membrane layers.

CORNERS: Pre-formed COMPOSEAL GOLD inside and outside corners are available for waterproofing jobs.

FLASHING AND SEALANTS: COMPOSEAL WHITE GOLD is bonded to metal flashings, drains, protrusions etc. with Compotite Elastiseal or a 100% mold/mildew resistant silicone.

◆ CODE ACCEPTABILITY, CERTIFICATION

COMPOSEAL WHITE GOLD has been tested for Sound Transmission Loss as specified by ASTM E90-97 and ASTM E413-87 resulting in a Sound Transmission Class (STC) rating of 66 with a suspended ceiling. COMPOSEAL WHITE GOLD was also tested for Impact Sound Transmission as specified by ASTM E492-90 and ASTM E989-89, and given an Impact Isolation Class (IIC) rating of 66 with a suspended ceiling.

◆ WARRANTY

COMPOSEAL WHITE GOLD is warranted against failure for any reason and in the case of the event of failure, replacement material will be supplied at no charge. This warranty does not cover improper installation over which we have no control.

For information about your local COMPOTITE REPRESENTATIVE or for additional technical literature, installation materials including written brochures and DVD's call 800-221-1056 or consult our website at www.compotite.com. COMPOSEAL WHITE GOLD and its accessory products are available through quality ceramic tile distributors.