



**PRODUCT INFORMATION**

**bondrite**

Multipurpose wall & floor tile organic adhesive

**BONDRITE** is a multi-purpose synthetic, type 1, acrylic based adhesive manufactured for the interior installation. It is composed of high quality organic resins and latexes for setting of all types of vitreous and non-vitreous ceramic wall and floor tiles on vertical or horizontal surfaces.

**TEXTURE:**

Acrylic co-polymer heavy paste

**COLORS:**

Creamy white

**PACKAGING:**

1 gallon (3.8 L) and 3.5 gallon (13.3 L) pail

**BASIC USE**

> **BONDRITE** is a premixed, ready-to-use and resealable adhesive.

**AREA OF USE**

It may be used over structurally sound, firm level, dry surfaces (interior only) such as gypsum wall board, glass fiber mesh reinforced concrete backer board, exterior grade plywood, existing ceramic tile\* and well cured, dry, dimensionally stable concrete on, above or below grade.

\*Please allow adhesive to set 15 minutes before applying tile.

**BENEFITS**

> It is easy spreading, freeze-thaw stable, non-flammable, water cleanable prior to set up, sets fast with long lasting elastic grip and excellent coverage.

> Wall tiles may be set top down or bottom up with no slip.

**LIMITATIONS**

> Do not install certain heavy weight tile with this adhesive on vertical surfaces or in interior areas requiring prolonged water resistance.

> **BONDRITE** should not be used over strip wooden surfaces, wall paper, masonite, metal, particle board, lauan plywood or plaster that contains moisture.

> It is not recommended for service environment above 140 °F.

> **BONDRITE** adhesive should not be used for setting fixtures or high lug tiles. It should not be used in areas of high moisture exposure or wetness such as steam room, shower stall floors or water submerged surfaces.

**APPLICABLE STANDARDS**

**BONDRITE** conforms and complies with all requirements of ANSI A-136.1; type 1 and 2 organic adhesives for the installation of ceramic tile.



INTERIOR FLOORS / WALLS



OVER CONCRETE



OVER PLYWOOD



OVER GYPSUM

**Technical Data: BONDRITE**

SPECIFICATIONS	
Base	Acrylic co-polymer
Color	Creamy white
Consistency	Heavy paste
Solids (%)	67.0
Weight per gallon	11.6
Application	Notched trowel
Open time @ 70 °F	Up to 45 minutes, depending on trowel size, temperature, humidity and substrate porosity.
Adjustability @ 70 °F	
Shear strength (ANSI A136.1) Dry	> 220 psi
Water immersion	> 70 psi
Freezable	Freeze-thaw stable (3 cycles)
Coverage	Up to 75 sq. ft. per gallon depending on trowel size.

**INSTALLATION: PREPARATORY WORK**

All substrates must be dry, structurally sound and at a temperature between 40 °F to 100 °F (4 °C to 38 °C) during installation and cure. All surfaces must be free of all oils, dirt, dust, loose paint, curing compounds, gypsum based underlayments and any other contaminants that may prevent a good bond. Detailed installation procedures may be found in the TCNA Handbook, and ANSI A108.4.

**GYPSUM BOARD SUBSTRATES**

The paper bound edges of the gypsum board shall be spaced a minimum of 1/4" (6 mm) above bathtub receptor lip. Caulk all edges and open openings around pipes, fixtures and tubs with waterproof, non-hardening caulking compounds or adhesive complying with ANSI A136.1 type 1 and 2.

**PLYWOOD SUBSTRATES**

Deflection shall not exceed 1/360 th of the span, rigid and non-flexing under live and dead loads. The surface to receive the tile adhesive shall be exterior grade plywood only, secured with screwed-type nails and glued where possible. A perimeter gap of 3/16" (5mm) shall be left between each sheet of plywood panel and where plywood abuts walls to allow for expansion. All plywood must be interior floors or countertop use only and protected from exposure to work or moisture.

## CEMENTITIOUS SUBSTRATES

Concrete, masonry surfaces or plaster must be fully cured and not subject to hydrostatic pressure or water seepage. If surfaces are uneven, they should be cloned or plumed with masonry leveling compound and allowed to cure a minimum of 48 hours before any adhesive is applied.

## TILE OVER TILE

Ceramic surfaces must be well bonded to the substrate. Surface preparation so consist of stripping any waxes or sealers and tiles shall be scarified by mechanical sanding.

## APPLICATION

It is suggested that the adhesive be brought to a temperature range between 40 °F to 80 °F (4 °C to 27 °C). The type of tile to be installed and substrate conditions will determine the notch size of the trowel needed to obtain 95% contact of the adhesive to the back of the tile and wet film thickness of  $\frac{1}{32}$ " (1 mm) after embedding. Apply adhesive with the flat side of the trowel to both key-in the adhesive and uniformly cover the entire surface. In areas that will be subject to moisture, it is important that a skim coat of **BONDRITE** adhesive be applied first and allowed to dry. Additional adhesive should be applied to the notch side of the trowel on areas only as large as can be covered with tile before the adhesive skins over. Remove any adhesive that skins over and reapply fresh adhesive. Press and slide tiles into the fresh, wet adhesive to ensure maximum contact and proper alignment. Check occasionally to make sure adhesive has not skinned over by removing a tile to check for proper coverage in transfer of adhesive to tile.

## RECOMMENDED TROWEL AND COVERAGE

Approximate coverage per gallon (3.8 liters).

Bonding flat back ceramic & mosaic:

"V"-notched trowel  $\frac{1}{8}$ " x  $\frac{1}{8}$ " (3 mm x 3 mm) 65-75 ft<sup>2</sup> (6-7 m<sup>2</sup>)

Bonding glazed wall tile:

"V"-notched trowel  $\frac{3}{16}$ " x  $\frac{5}{32}$ " (5 mm x 4 mm) 25-30 ft<sup>2</sup> (2-3 m<sup>2</sup>)

## CLEANING

Fresh, uncured adhesive can be removed from tile surface with a water damp sponge. Tools may be cleaned with warm soapy water. Dry adhesive may be removed by scraping or with 3M Safest Stripper.

## CURING

Under normal conditions, 75 °F (24 °C), tiles may be grouted in 48 hours. Under cooler or humid conditions, or the vitreous tile in excess of 4" x 4" (10cm x 10cm) a longer cure time (up to 72 hours) is required to allow for complete evaporation of excess moisture. If not completely evaporated the excess moisture may cause the grout to yellow.

## STORAGE LIFE

One year if kept in tightly sealed container at temperatures 40 °F - 90 °F (4 °C - 32 °C). Protect this product from freezing during shipment and storage.

**SAFETY - CAUTION:** May cause eye, skin or lung injury. Contains free silica. Prolonged exposure to dust may cause delayed lung disease (silicosis). Eliminate exposure to dust. Use NIOSH approved mask for silica dust. Contains portland cement. If any cement or cement mixtures get into eye, flush immediately and repeatedly with water and consult a physician promptly. Freshly mixed cement, mortar, concrete or grout may cause skin injury. Avoid contact with skin where possible and wash exposed skin areas promptly with water.

### KEEP OUT OF REACH OF CHILDREN

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