



PURE PLUS

CEMENTITIOUS ADHESIVE FOR ANY KIND OF TILE & STONE

Designed especially for interior floor and wall installations and external floor installations of all types of ceramic tile, vitrified tile, precast terrazzo and natural stones over concrete and on a variety of cement-based substrates. Pure Plus can also give very good adhesion for fixing granite on window seal. Can be used up to a maximum 12mm bed thickness



Green Building Rating



Areas of Application

- Fixing absorbent floor and wall tiles out doors and in doors.
- Fixing on heating floors.
- Fixing poorly absorbent materials or non-absorbent materials such as single-fired tiles, refine porcelain stoneware and vitrified tiles.
- Suitable for use when high performances are required, such as tile fixing in industrial environment or fixing on top of old ceramic tiles or natural stone indoors, in swimmingpools or on facades.
- The tiles can be made of cotto, double fired, single fired ceramic.

Features & Benefits :

- Single component, just add water
- Interior applications, polymer based
- Economical & Easy to use
- Bonds to various substrates
- Exceeds ANSI A118.1 T shear bond strength requirements
- Complies with EN / ISO with a C1T classification.
- Exceeds IS 15477:2019 – Type 2 T Adhesive standards.
- Can be fortified with latex admix for use on external Wall area.

Preparation of substrates

- Concrete
- Concrete Masonry
- Cement Mortar Beds
- Cement Plaster
- Existing Vitrified Tile* & Ceramic Tile*
- Brick Masonry
- Cement Terrazzo*
- Existing Natural Stone*
- Surface to be cleaned and roughened before installation of tiles or stones.



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Surface Preparation:

All surfaces should be between 40° F(4°C) and 104° F(40°C) and structurally sound, clean and free of all dirt, oil, grease, loose peeling paint, laitance, concrete sealers or curing compounds. Check the surface to be true to plumb. All slabs must be plumb and true to within ¼”(6mm) in 10 ft(3m). Rough or uneven concrete surfaces should be made smooth with Dubond Screed/Plaster material to provide a wood float (or better) finish. Dry, dusty concrete slabs or masonry should be dampened, and excess water swept off. Installation may be made on a damp surface. New concrete slabs shall be damp cured and 28* days old before application. *No minimum cure time for concrete slabs when thin-set mortar is mixed with latex additive. Please refer specific product Technical Data Sheet for detailed recommendations.

Mixing:

Place clean, potable water into a clean mixing bowl. Add Pure Plus powder into the mixing bowl. Use approximately 5.5 - 6L of water for 20 kg of powder. Mix by hand or with a slow speed mixer to a smooth, trowelable consistency. Allow adhesive to slake for 5 minutes. Adjust consistency if necessary. Remix and apply with the proper sized notched trowel.

Application

Apply adhesive to the substrate with the flat side of the trowel, pressing firmly to work into surface. Comb on additional adhesive with the notched side. Use the proper sized notched trowel to ensure full bedding of the tile. Spread as much adhesive as can be covered with tile in 10 minutes. Back butter large format tiles (> 12"x12") to provide full bedding and firm support. Place tiles into wet, sticky adhesive and beat in using a beating block and rubber mallet to imbed tile and adjust level. Check adhesive for complete coverage by periodically removing a tile and inspecting bedding adhesive transfer onto back of tile. Use of spacers is recommended to provide grout joints between tiles / stones. The joint width shall be as per the recommendation of architect / engineer. Remove the spacers when the adhesive is set firm. If adhesive is skinned over (not sticky), remove and replace with fresh adhesive. For highly absorbent natural stones which may form a wet patch when adhesive is used, it is recommended to use suitable Impregnating sealers on all sides. Please refer Technical Data Sheets of product intended for use for specific instructions of use

NOTE TO THE SPECIFIER AND INSTALLER:

While installing tile/stone on the external floors, we need to provide the joints by creating spaces between the tiles/stones and fill them up with flexible grout. (In the absence of spacer joints, the surface movements can push tiles/stones away from the substrate causing debonding of tiles or stones)
The exterior tile / stone installations are provided with joints (spaces) on the periphery of the area without allowing the tile / stone to be bound by the peripheral masonry work or plaster.

HOT & COLD WEATHER TILING:

* Please refer technical document on Hot & Cold weather tiling.

Special applications :

Replacement of mixing water with Tuffex AD, the professional elastomer latex, provides the adhesive with greater capacity of transversal deformation and greater resistance to water and tensile stress without modifying the open time and adjustment interval.

Peak with addition of tuffex AD exceeds the level of performance required by EN 12004 class C2 E. Please consult the Dubond Products (India) Pvt Ltd site to define use of this product for particular purposes such as:

- laying on deformable flooring and walls in plasterboard,
- laying on heat-radiant slabs,
- laying of large-format paving slabs in outdoor applications and in permanently humid environments, direct bonding on substrates in smoothed concrete with reduced water absorption.



Precautions & Limitations :

Do not use on substrates with a gypsum and anhydrite base without use of HydroPrime the professional, concentrated, water-base, surface insulation product

1. Heat-radiant slabs,
 2. High-flexibility substrates;
 3. Marble floor tiles and natural stone,
 4. Metal and wood;
 5. On old ceramic flooring,
 6. On plasterboard;
 7. On plastic or resilient materials,
 8. On substrates which are wet, subject to moisture rising or in continuous contact with water.
- Do not use the adhesive to correct substrate irregularities greater than 10 mm

Technical Information

Performance Properties:

Pure Plus Adhesive mixed with Water

Applicable Standards:

ANSI A118.1T; EN 12004 & ISO 13007;
IS15477:2019

ANSI Data		
Property : Test method	Requirement	Typical Values
Open Time (20 Minutes at 28 days): ANSI A118.1 Clause – 5.3	≥ 75 psi (0.50 Mpa)	100 psi – 120 psi (0.68 – 0.82 Mpa)
Sag: ANSI A118.1 Clause 6.0	≤ 0.02 Inches (0.50 mm)	0.012 – 0.016 Inches (0.30-0.40 mm)
Glazed wall tile Shear Strength		
7 Days: ANSI A118.1 – Clause 7.1.2	>200psi (1.38Mpa)	225-275 psi (1.54 Mpa-1.89 Mpa)
7 Days Water immersion: ANSI A118.1- Clause 7.1.3)	>150psi (1.03Mpa)	200-250 psi (1.37 Mpa-1.72 Mpa)
Porcelain Mosaic Tile Shear Strength		
1 Day: ANSI A118.1 – Clause 7.2.2	>50psi (0.34Mpa)	100 - 150 psi (0.68 – 1.03 Mpa)
7 Days: ANSI A118.1 – Clause 7.2.3	>150psi (1.03Mpa)	200 - 250 psi (1.37 – 1.72 Mpa)
7 Days Water immersion: ANSI A118.1 – Clause 7.2.4	>100psi (0.69Mpa)	150 - 200 psi (1.03 – 1.37 Mpa)
28 Days: ANSI A118.1 – Clause 7.2.5	>150psi (1.03Mpa)	200 - 250 psi (1.37 – 1.72 Mpa)
12 Weeks: ANSI A118.1 – Clause 7.2.6	>150psi (1.03Mpa)	200 - 250 psi (1.37 – 1.72 Mpa)

The adhesive mortar conforms to ANSI A118.1T

EN / ISO Data		
Property: Test Method	Requirement	Typical Values
Open Time: EN 1346	≥ 0.50 N/mm ²	0.65 – 0.75 N/mm ²
Slip Resistance: EN 1308	≤ 0.50 mm	0.30 - 0.40 mm
Tensile Adhesion Strength		
Initial: EN 1348 – Clause 8.2	≥ 0.50 N/mm ²	0.75 – 1.00 N/mm ²
After Water Immersion : EN 1348 - Clause 8.3	≥ 0.50 N/mm ²	0.75 – 1.00 N/mm ²
Heat Ageing: EN 1348 – Clause 8.4	≥ 0.50 N/mm ²	0.75 – 1.00 N/mm ²

Freeze Thaw: EN 1348 – Clause 8.5	≥ 0.50 N/mm ²	0.75 – 1.00 N/mm ²
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The adhesive mortar conforms to EN12004 / ISO 13007 as C1T

IS Data		
Property : Test method	Requirement	Typical Values
Tensile Adhesion		
Dry Conditions – Annex A (Clause 5.1)	Minimum 1.00 N/mm ²	1.15-1.25 N/mm ²
Wet Conditions – Annex A (Clause 5.1)	Minimum 1.00 N/mm ²	1.15-1.25 N/mm ²
Shear Adhesion		
Dry Conditions- (Annex B (Clause 5.2)	Minimum 1.25 N/mm ²	1.35-1.45 N/mm ²
Heat Ageing - Annex B (Clause 5.2)	Minimum 1.00 N/mm ²	1.05-1.15 N/mm ²
Wet Conditions- Annex B (Clause 5.2)	Minimum 1.00 N/mm ²	1.10-1.20 N/mm ²
Slip resistance Annex E (Clause 5.5)	≤ 0.5 mm	0.35-0.45 mm

The Adhesive conforms to IS 15477: Type 2T

Working Properties at 70° F (21° C)

Pure Plus Adhesive mixed with Water

Open Time	20 minutes
Pot Life	3 - 4 hours
Adjustment Time	20 Minutes
Time to Heavy Traffic	16 - 24 hours

Specifications subject to change without notification.

Results shown are typical but reflect test procedures used. Actual field performance will depend on installation methods and site conditions.

Final Characteristics

Shear Adhesion After 28 Days.	$\geq 1 \text{ Mpa}$	ANSI A-118.1
Tensile Adhesion On Concrete After 28 Days.	$\geq 1 \text{ MPa}$	EN 1348
Durability Test:		
Adhesion After Heat Agering.	$\geq 1 \text{ MPa.}$	EN 1348
Adhesion After Water Immersion	$\geq 1 \text{ MPa}$	EN 1348
Adhesion After Freeze Thaw Cycles	$\geq 1 \text{ MPa}$	EN 1348
Working Temperature From Conformity	C2 TE	EN 12004

Coverage :

Approximately 55 to 60 sqft for 20 kgs bag with 6mm x 6mm square notch trowel for a bed of 3 mm

Packing :

20 kg bag.

Shelf Life & Storage :

12 Months with original packing in dry storage condition. Health & Saftey Precautions : Use Gloves. Non Toxic.

DISCLAIMER The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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