



Complete Tile Fixing Solution



HP-1031

FOR EXTERIOR WALL TILES

ADHESIVE FOR USE WITH CERAMICS,
MOSAIC & STONE TILES.

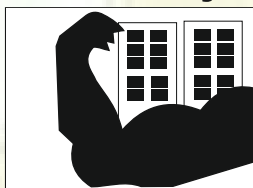


**COMPLIANCE
TYPE - 4
ANSI A 118.4 ET
EN/ISO C2TES2 CLASSIFIED**

**Latest Technology
Value For Money**



Durability



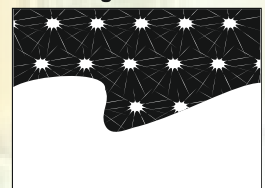
ISI MARK



Reliability



**Resists Algae &
Fungus Growth**



HOME PRIDE 1031 TILE ADHESIVE



Exterior Elevation Adhesive

Home Pride 1031 is wonderful mixture of cement, silica, different polymer for installation of ceramic, vitrified tiles, stones, quarry tiles, pavers and bricks on facades. It is flexible to handle structural movement and can take on extreme weather conditions. It can be mix with water and Home Pride 93 create admixture, When mixed with Home Pride 93 create admixture it gain long open time with unsurpassed adhesion and workability.

When mixed with Home Pride 93 create admix for use on plywood applications for improve performance.

APPLICATION

- ❖ Both for interior and exterior application.
- ❖ Under water application like swimming pools, water body.
- ❖ For all type of ceramic tile and vitrified tile, Glass mosaic tiles.
- ❖ Over concrete and a variety of cement based substrates.
- ❖ Recommend uses-Vertical and other then vertical.
- ❖ Can be used for tile on tile application & slurry bond adhesive in wet to wet application.

ADVANTAGE

- ❖ It can be used on various surface drive walls directly.
- ❖ Under water application.
- ❖ Single component with ultimate bond strength.
- ❖ Single pack, just add water It is easy to apply.
- ❖ It can be used on various surface dry wall directly.
- ❖ Ideal for fixing ceramic and vitrified tile on floor and wall.
- ❖ It is a fantastic product with unique features and advantages.




SUITABLE SUBSTRATES

Concrete Substrates	Tile/Stone Substrate
Cement Plaster Precast concrete Cement Terrazzo Cement Mortar Bed VDF ,MIVON Concrete Concrete & Concrete masonry	Stone Brick Cement tile Ceramic tile Vitrified tile Natural stone Glass mosaic tile

SUITABLE TILE TYPE

Tiles	Stone Tile
Brick , Ceramic tiles ,Vitrified tile ,Glass Mosaic Tiles, Slim porcelain large format tile	Marble ,Natural stone tile

STANDARD COMPLIANCE & CERTIFICATION

 IS 15477:2019 Type :4 TS2	HOME PRIDE 1031 TILE ADHESIVE is ISI Certified and categorized Type 4 T S2 as per IS 15477:2019 ADHESIVE FOR USE WITH CERAMIC ,MOSAIC AND STONE TILES – specification
HOME PRIDE 1031 TILE ADHESIVE conforms to C2TES2 as per - A cementitious (C)improved performance (2) Slip resistant (T) tile adhesive as per EN:12004 & ISO: 13007 –C2TES2	
	 EN:12004 & ISO: 13007 –C2TES2
HOME PRIDE 1031 TILE ADHESIVE conforms to ANSI: A 118.4 –ET ANSI: A 118.4 -ET	
	 American National Standards Institute

TECHNICAL DATA

Product Identification	
Consistency	Free flowing powder
Density (g/cm ³)	1.77
Colour	Grey / White
Performance Property (at +27°C and 65% R.H)	
Mixing ratio (Powder : Water)	4:1 to 3:1
Application temperature range	+5°C To 40 °C
Pot life	1.5 to 2 hr
VOC Content (As per EPA 24method)	<1.2 gm/kg
Adhesive Thickness	3 – 12 mm
Light foot traffic	24 hr
Grouting time	24 hr
Ready for use (heavy traffic)	7 days
Packaging	20 kg

Technical data of Application Standards

Performance Property : Home Pride 1031 Adhesive mixed with water.

Application Standards : IS 15477:2019 and Meet EN 12004 & ISO 13007, ANSI A 118:4 ET.

IS 15477 : 2019 TYPE -4		
TEST METHOD	REQUIREMENT	TYPICAL VALUES
TENSILE ADHESIVE STRENGTH		
Dry Condition (28 days) annex A (Clause 5.1)	1.5 N/MM ²	1.60 – 1.89 N/MM ²
Wet Condition (7 STD days 21 WET) annex A (Clause 5.1)	1 N/MM ²	1.18 - 1.20 N/MM ²
SHEAR ADHESIVE STRENGTH		
Dry Condition(28 days) annex B (Clause 5.2)	1.5 N/MM ²	1.58 – 1.68 N / MM ²
Heat ageing Condition(14 STD 14 days oven) annex B (Clause 5.2)	1 N/MM ²	1.11 - 1.19 N/MM ²
Wet Condition (7 STD days 21 WET) annex B (Clause 5.2)	1 N/MM ²	1.10 - 1.17 N/MM ²
OPEN TIME		
OPEN TIME Annex C (Clause 5.3)	> 15 MIN	30 MIN
ADJUSTMENT TIME		
AD. T Annex D (Clause 5.4)	>15 MIN	25 MIN
SLIP TEST		
SLIP TEST Annex E (Clause 5.5)	< 0.5 MM	0.1 MM - 0.2 MM
DEFORMABILITY		
DEFORMABILITY Annex F (Clause 5.6) S2	>5 MM	5.2 MM

Note : All the tests carried out at standard atmospheric condition. Test results may vary as per substrate, site condition & testing machine etc. actual field performance will depend on installation methods and site conditions.

Performance property as per ISO 13007 AND EN 12004 (C2TES2)

S.no	Testing Parameter	Requirement	Typical values
1.	Tensile Adhesion strength after 28 days	≥1 N/mm ²	≥1.63 N/mm ²
2.	Tensile adhesion strength after water immersion	≥1 N/mm ²	≥1.27 N/mm ²
3.	Tensile adhesion strength after heat aging	≥1 N/mm ²	≥1.52 N/mm ²
4.	Tensile adhesion strength after freeze-thaw cycle	≥1 N/mm ²	≥1.21 N/mm ²
5.	Transverse deformation	≥5 mm	≥5.1
6.	Slip resistance	≤0.5 mm	≤ 0.29 mm
7.	Extended open time at 30 minutes(E)	≥0.5 N/mm ²	≥ 1.1 N/mm ²

Note: All the tests carried out at standard atmospheric condition. Test results may vary as per substrate, site condition & testing machine etc. actual field performance will depend on installation methods and site conditions.

ANSI Data		
Property: Test method	Requirement	Typical Values
OPEN TIME ANSI A118.4 Clause- 5.3	30 Minutes	35 – 40 Minutes
Sag: ANSI A118.4 Clause 6.0	≤0.02 Inches (0.50 mm)	0.008 – 0.012 Inches (0.20 – 0.30 mm)
Glazed wall tile shear Strength		
7 Days : ANSI A118.4 – Clause 7.1.2	>300psi (2.07Mpa)	350 – 375 Psi (2.40 Mpa – 2.57 Mpa)
7 Day water immersion : ANSI A118.4 - Clause 7.1.3	>200psi (1.38Mpa)	250 – 275 psi (1.72 Mpa – 1.89 Mpa)
Porcelain Mosaic Tile Shear Strength		
1 Days: ANSI A 118.4 – Clause 7.2.2	>75psi (0.50Mpa)	125 – 175 psi (0.86 – 1.20 Mpa)
7 Days: ANSI A 118.4 – Clause 7.2.3	>200psi (1.38Mpa)	275 – 325 psi (1.89 – 2.23 Mpa)
7 Days: water immersion ANSI A 118.4 – Clause 7.2.4	>150psi (1.03Mpa)	225 – 275 psi (1.72 – 2.06 Mpa)
28 Days: ANSI A 118.4 – Clause 7.2.5	>200psi (1.38Mpa)	300 – 350 psi (2.06 – 2.40 Mpa)
28 Days: W / Freeze-Thaw cycling ANSI A 118.4 – Clause 7.2.5	>175psi (1.20Mpa)	275 – 325 psi (1.89 – 2.23 Mpa)
12 Weeks: ANSI A 118.4 – Clause 7.2.7	>200psi (1.38Mpa)	300 – 350 psi (2.06 – 2.40 Mpa)
Quarry Tile Shear Strength		
28 Days: ANSI A 118.4 – Clause 7.3.2	>150psi (1.03Mpa)	250 – 300 psi (1.72 – 2.06 Mpa)
28 Days: W / Freeze-Thaw cycling ANSI A 118.4 – Clause 7.3.3	>100psi (0.69Mpa)	200 – 250 psi (1.37 – 1.72 Mpa)

Note : All the tests carried out at standard atmospheric condition . Test results may vary as per substrate, site condition & testing machine etc. actual field performance will depend on installation methods and site conditions.

Coverage Details (per 20 kg bag)

Trowel size	Average Bed thickness	Minimum coverage	Maximum coverage
6*6 mm Square Notch	3 mm	55 sq.ft	60 sq ft

*Coverage will be depending on type & size of tile & substrate smoothness & flatness.

INSTALLATION

For proper installation of Tiles / Stone following recommendation should be follow

1. Substrate Preparation

The substrate must be level , cured , compact, undamaged , rigid, resistant, dry and free from any debonding agents Like Dust particles ,Oil , Grease ,Loose peeling point , Concrete sealer and all surface should be in the range of temperature of 10 -38⁰c .

Dry and dusty surfaces should be dampened with water and excess water should be swept off

New concrete surface shall be damp cured and 28 days old before application which will reduce the shrinkage from tile fixing surface. All surfaces must be plumb and true to within 6 mm in 10 ft (3m).

Check the floor flatness before installation of tile and stone on floor:- Properly prepared substrates should not have more than a permissible variation of 1/8 in. 10 feet (3mm in 3.05) from the required plane nor more than 1/16 in 24 inches (2mm in 600mm) When measured from high points in the surface with a straight edge.

Check the wall flatness before installation of Tile and Stone at wall:- prepared substrates should not have more than a permissible variation of 1/8 in 10 feet (3mm in 3 m) from the required plane nor more than 1/16 in 24 inches (2mm in 600mm) When measured from high points in the surface with a straight edge.

Removal of Demolding wax powder on the back side of tile:- For easy and proper installation of the large format or thin and slim porcelain tile is the preparation of the surface and complete removal of demolding wax powder on the back side of the tile .should there be a fiber mesh present on the back surface of tile .ensure that completely removed before proceeding with the installation with Home Pride 1031.

1. Mixing

Add powder 4 to 3 part in 1 part of water (Powder: water ratio 4-3:1) or 5 – 6.5 liter water for 20 kg adhesive bag in a clean mixing vessel and Adjust water as per desired consistency .

Water Required as per 20 kg packing	Grey Tile Adhesive	White Tile Adhesive
For wall (High thickness non sag consistency)	5.3 Liter 26.5%	5.6 liter 28 %
For floor (Low thickness cream past consistency Fully wetted)	6.4 Liter 32 %	6.5 Liter 32.5 %

Note : All the tests carried out at standard atmospheric condition . Test results may vary as per substrate, site condition etc. actual field performance will depend on installation methods and site conditions.

For lumps free homogeneous paste preparation Mix with a suitable mechanical stirrer or slow speed drills (50 – 80 rpm) until lumps free homogeneous paste is obtained. Leave mixture for 5 minutes before use.

Always mix the paste in required quantity which can be consumed within pot life.

2. Application

Apply Home Pride 1031 Tile Adhesive on the substrate with the flat side of the trowel. By the notch side of trowel Comb the additional adhesive on the substrate as per bedding thickness use the proper size notch trowel.

Tile must be fixed within 10 minutes of adhesive applied, depending on the porosity of the surface and atmospheric condition. Apply adhesive on substrate surface as per tile fixing rate.

Check the adhesive ribs periodically and if a skin has formed remove the dried adhesive and apply fresh adhesive. After applying the adhesive fix and press tile firmly into position with a slight twisting action. Good contact should be maintained with Back of each tile with adhesive.

Fix the tile such a way no voids remain behind tile. Beat tile using rubber mallet and adjust level.

For large size tile or irregular surfaces, adhesive can additionally apply on the back of the tile to ensure full adhesive contact. Leave proper space between tiles by using HP spacers.

Clean off excess adhesive from upper surface of tile and between joints.

Clean tools as soon as possible after tiling work completed with water.

Mechanical Edge -Leveling System: For installation of large format and thin body porcelain tile to reduce slippage Mechanical edge leveling system or clamps will greatly assist .mechanical clamps help in align the edges of tile and slippage may occur zero found in many cases.

Spacer Joints: In the process of installation of tile and stone on the external walls and floor provide the spacer joints by creating spaces between the tile and stone and fill them up with home pride grout mix with Home Pride Admix.

(In absence of spacer joints .the surface movements can push tile and stone away from the substrate causing debonding of tile and stone)

In exterior tile and stone installation are provided with joints (space) on the periphery of the area without allowing the tile and stone to be bound by the peripheral masonry work of plaster.

GROUTING: –

Grouting installation shall be carried out after a minimum time interval of 24 -48 hr at 21 °C (70F). Grouting with home pride sanded or unsanded Grout mixed with Home Pride Grout Admixture. For maximum stain resistance of external spacer joint application use Home Pride Epoxy Grout Joint Filler.

Note – Grout are not replacement of water proofing in field area. In case of water proofing requirement Choose an appropriate water proofing membrane.

Note – Suitability of a tile adhesive largely depends on the following factors of tiles to be fixed -
Type of substrate, Size of tile, Type of tile, Area of Application.

Storage – Store in a cool & dry place.

Storage life – One year from the date of manufacturing in original closed packaging.

Health Precautions

- ❖ This product contains cement and silica.
- ❖ Avoid eye contact and prolong contact with skin.
- ❖ Wash thoroughly after handling.
- ❖ If eye contact occurs flush with water for 15 minutes and consult with physician.
- ❖ Do not breath dust ; wear a P2 type respiratory mask.

HELP DESK



Co Operate Office:

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Home Is Everybody Pride So, Make Sure You Use Home Pride



Remark: the directives contained in this documentation are the result of our experiments and have submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible application which are out of our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments.