

ACEFIX 7 STAR

High Performance, Polymer Modified Tile Adhesive



Polymer modified additives	Durability	For tiles on tiles	Low voc
Large size tile	For natural stones	Easy to apply	3-15 mm Application thickness
Trowel application	3-4 mm Low consumption	Perfect adherence	Flexible

Product Compliance

<p>CLASS CHARACTERISTICS</p> <p>C2 TES1</p> <p>EN 12004 STANDARD</p>	<p>IS 15477</p> <p>CM/L-6800114511 TYPE-3(T,S1)</p>	<p>American National Standards Institute</p> <p>ANSI A118.4ET</p>
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PRODUCT DESCRIPTION

A superior quality polymer modified thinset adhesive with non-slump formula that eliminates slippage and gives excellent mechanical property. It is designed for fixing large format tiles and natural stones for most demanding internal & external floor and wall application. It can be mixed with Acemix 2C Latex admix for enhanced performance like flexibility, additional workability and better bonding strength. It can also be fortified with Acemix Superflex admix for high flexibility and bonding tile or stones on special grade plywood.

ADVANTAGES

- › Superior grade, excellent bonding
- › Excellent quality, Easy to fix
- › Suitable for both interior & exterior floor and wall
- › Additional working time, improved water resistance property
- › Easy mixing with liquid, nice consistency
- › Complies to Indian and International standards
(IS 15477:2019/EN 12004/ANSI A 118.4)

APPLICATIONS

- › Interior and exterior application for floor and wall.
- › Can fortify with Acemix Superflex admix for improved performance and high flexibility and bonding tile or stones on special grade plywood.

SUITABLE SUBSTRATES

- › Cement floors or plaster
- › Cement bed
- › Terrazzo

STORAGE AND HANDLING

Store in cool and dry area in unopened original bag.

EASY MAINTENANCE

Properly installed product requires no special maintenance.

AVAILABLE PACK SIZE

Available in 20 kg and 40 kg bags in grey colour & white colour.



SHELF LIFE

12 months if stored in cool and dry area in unopened bag. Shelf life is calculated from the month of manufacturing of the product.

PRODUCT DETAILS

Physical state	Powder
Colour	Grey & White
Bulk Density	1.45 to 1.50 gm/cc
Mix Density	1.80 to 1.85 gm/cc
Mixing Ratio (powder to water)	3:1 by volume
Pot life	Approx 2 hours 30 Minutes
Open time	Minimum 20 Minutes
Adjustability time	Minimum 20 Minutes
Ready for grouting on walls	24 hours
Ready for grouting on floor	24 hours
Ready for use	48 hours

METHOD OF INSTALLATION

1. Clean the Surface
2. Add Required amount of Water
3. Pour Acefix Material (20 kg / 30 kg)
4. Wait for 5 minutes (WAIT 5 MIN)
5. Remix for 3 minutes
6. Trowel
7. Apply over Substrate
8. Back Butter
9. Fix tiles
10. Adjust and Tap
11. Clean
12. Wait for 24 Hours (WAIT 24 HRS)
13. Grout (GROUT)
14. Foot Traffic (WAIT 72 HRS)
15. (Final grouting and finishing)
16. (Final grouting and finishing)

APPLICATION GUIDANCE

Surfaces must be structurally strong. Remove all grease, oil, dirt, curing compounds, sealers, adhesives or any other contaminant that would prevent good bonding. Glossy or painted surfaces must be sanded or abraded and stripped off all contaminants. Concrete or plaster must be cured 28 days prior to bonding unless it is made with Acescreed or Aceplast Premium. Concrete must be free of efflorescence and not subject to hydrostatic pressure. Concrete slabs should have a course finish to enhance the bond. Roughen the surface by sanding or abrading, then rinse and allow to dry. Expansion joints should never be bridged with setting material. Surface temperature should be maintained above 10° C or below 38° C to achieve proper bonding. For questions about proper installation, call Technical Services executives on +91963 260 5577.

Use 4.5 – 5 ltr of water or Acemix 2C latex admix or Acemix Superflex admix (for plywood bonding) for 20 kg powder. Take liquid in a 20 ltr clean pail and pour powder slowly to the pail under slow mixing. Mix by hand or use a slow speed drill mixer (150 – 200 rpm speed) to achieve a smooth, paste-like consistency. Let the homogeneously mixed adhesive mixture slake or stand 5 -10 minutes, stir again and use. Stir occasionally, but do not add more water. When properly mixed, troweled ridges will stand without slump.

Use a required size notch trowel to ensure proper coverage under tiles. Using the flat side of the trowel, apply a skim coat of mortar to the surface. With the help of properly notched or teeth side of the trowel held at a 45° angle, apply additional mortar to the surface, combing in one direction. Press the tile firmly into place in a perpendicular motion across ridges, moving back and forth. The perpendicular motion flattens ridges and closes valleys, allowing maximum coverage. With some tile, back-buttering is advisable. Adjust the tile promptly and beat it in with a beating block and rubber mallet. Periodically pull up a tile and check the back to ensure proper adhesive coverage. If the material has skinned over, recomb with the notch trowel. If too dry, remove and replace the dry material with fresh material. Material in the bucket will remain workable for approximately 3-4 hours.

Grouting can be done after 24 hrs of installation of tiles. Use Acegrout superfine series grout for up to 3mm joints and Acepoxy coarse series grout for 3 - 12 mm joints. Use Acepoxy Epoxy grout for stain and chemical resistance. Please call customer service executive for more information.

Sl. No	Tests/ Parameters	Unit	Results	Requirement	Test Methods
1	Slip Resistance At 23±2°C Temperature & 50±5% Relative Humidity	mm	<0.5	No Slip	EN 1308 (EN 12004) and ISO 13007(PT.1&2)-2010, Cl-4.2
2	Extended Open time	Mpa N/mm ²	1.20	> 0.5 N/mm ² after not less than 30 min	EN 1346 (EN 12004) and ISO 13007(PT.2), Cl-4.1
3	High tensile adhesion strength	Mpa N/mm ²	4.51	≥ 1 N/mm ²	8.2 of EN 1348:1997(EN 12004) and ISO 13007(PT.2) & Cl-4.4.4.2
4	High tensile adhesion strength after water immersion	Mpa N/mm ²	3.18	≥ 1 N/mm ²	8.3 of EN 1348:1997(EN 12004) and ISO 13007(PT.2) & Cl-4.4.4.3
5	High tensile adhesion strength after heat ageing	Mpa N/mm ²	3.68	≥ 1 N/mm ²	8.4 of EN 1348:1997(EN 12004) and ISO 13007(PT.2) & Cl-4.4.4.4
6	High tensile adhesion strength after freeze-thaw cycles	Mpa N/mm ²	3.27	≥ 1 N/mm ²	8.5 of EN 1348:1997(EN 12004) and ISO 13007(PT.2) & Cl-4.4.4.5

As per IS 15477:2019

Characteristics	Test Methods	Unit	Condition	Requirements	Results
Tensile Adhesion Strength (Average),	IS 15477:2019, Clause 5.1 (TYPE-3, T, S1)	Mpa (N/mm ²)	Dry Condition (27±2°C & 65±5% RH)	1.5	4.12
			Wet Condition (27±2°C & 65±5% RH)	1.0	3.44
Shear Adhesion Strength (Average),	IS 15477:2019, Clause 5.1 (TYPE-3, T, S1)	MPa (N/mm ²)	Dry Condition (27±2°C & 65±5% RH)	1.5	4.58
			Heat Aging (27±2°C & 65±5% RH)	1.0	3.12
			Wet Condition (27±2°C & 65±5% RH)	1.0	3.34
Open time	IS 15477:2019, Clause 5.1 (TYPE-3, T, S1)	Minutes	(27±2°C & 65±5% RH)	Minimum 15 mins	32
Adjustment time	IS 15477:2019, Clause 5.1 (TYPE-3, T, S1)	Minutes	(27±2°C & 65±5% RH)	Minimum 15 Mins	35
Slip Resistance	IS 15477:2019, Clause 5.1 (TYPE-3, T, S1)	mm	(27±2°C & 65±5% RH)	<0.5	No Slip (0 mm)

MECHANICAL PROPERTIES

Mixing ratio	4.5 to 5 ltr for 20 kg powder
Tensile adhesion strength(28 days)	Minimum 300 PSI (2 N/mm ²)
Shear bond strength(28 days)	Minimum 350 PSI (2.41 N/mm ²)
Compressive strength(28 days)	Minimum 3700 PSI (25.5N/mm ²)
VOC Content	Nil
Duration for light foot traffic	6 hours
Duration for normal foot traffic	24 hours
Duration for heavy foot traffic	72 hours
Duration for grouting	24 hours

Values may change without prior notification and may not reflect immediately on TDS. Values shown in the table depends on laboratory condition and test procedure used. Actual performance may vary at site depending on site condition and method of installation used. Company is not liable if failed to produce mentioned result in the site.

PROTECTION OF JOB SITE

Curing time is affected by ambient, surface temperatures and humidity. Generally, light foot traffic can be allowed in 16 hours at 25°C, normal foot traffic in 24 and heavy foot traffic in 7days after installation.

CAUTION


- Store in cool and dry place.
- High humidity or moisture will affect the product.
- Once bag is opened, then finish it off without keeping for long time.
- This product contains Portland cement and free silica. Avoid eye contact or prolonged contact with skin.
- Wash thoroughly after handling. If eye contact occurs, flush with water for 15 minutes and consult a physician.
- Do not breathe dust; wear PPE whenever necessary.

COVERAGE

Approximately 3 sft per 1 kg for 3 mm bed thickness. Coverage will vary depending on surface undulation and application variances.

COVERAGE CHART (As a reference, actual may vary depends on site condition)		
TYPE OF TILE	SIZE OF TROWEL NOTCH	APPROX COVERAGE
Ceramic Tile	6mm x 6mm	2.5 - 3.0 Sq.ft / kg
Vitrified Tile	6mm x 9mm	1.5 - 2.0 Sq.ft / kg
Stones, Large Format Tiles	12mm x 12mm	1.0 - 1.2 Sq.ft / kg

CUSTOMER SERVICE

For any query related to product availability, cost, coverage, applicators, installation instructions, problems and trouble shooting, contact customer service executive on our  customer help line +91 963 260 5577 or write email to customer@acebond.in

For product or other information, please write us to info@acebond.in Visit us at www.acebond.in

WARRANTY

Accrete Adhesions India Pvt Ltd warrants to the original purchaser that its product shall be free from defects in material for a period of one year from the manufacturing of the product. Our sole liability under this warranty shall be limited to the replacement of our purchased product if proved defective under normal handling as stated in the TDS. This warranty will not extend to any other product or items which were handled along with our product. This warranty or any other legal issues or claims are subject to Kundapura jurisdiction only.

DECLARATION

The information and recommendations contained herein are based upon data believed to be correct; however, no guarantee or warranty of any kind expressed or implied is made with respect to the information provided since conditions of use, application method and surface preparation at site are beyond our control. All legal issues are subject to Kundapura jurisdiction only.

NB: Technology may change with time necessitating changes to this Technical Data Sheet (TDS). It is the responsibility of the user to ensure that the latest TDS is being used.

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