



AMERICAN
TECHNOLOGY



GERMAN
TECHNOLOGY

TECHNICAL DATA



ALPHA HIR TILE ADHESIVE

Category: CITE



INDIA'S 1st 100% Silica
Based Mortar



No Extra Cement
And No Sand



Polymer Modified Gel
Based Technology



German And
American Tech



Self Curing



Stronger Bonding



Easy To Make
And Clean



Reduce Labour
Cost



DESCRIPTION

HIR Alpha is basic grade of tiles adhesive. According to the ISO, the product meets CITE category parameters. The HIR Alpha is recommended tiles adhesive for wall tiles and flooring tiles, marble and stone. We can use HIR Tiles Adhesive Alpha for below purposes.

AREA OF APPLICATION: INTERIOR AND EXTERIOR APPLICATION OF TILES

RECOMMENDED USE

- Fixing tiles on tiles, stone, marble on floor upto 1000mm x 1000mm, 1200 x 2400
- Fixing tiles, stone, marble on floor upto 1000mm x 1000mm, 1200 x 2400
- Fixing wall tiles on wall up to 600mmx600mm porcelain tiles

Coverage: 0.54kg/Sq.ft /3mm thickness*

FEATURES

- Better Bonding than cement
- Better Pot Life than cement
- Longer Adjustment time
- Gel Base Technology
- Easy to clean
- More Flexible
- 100% silica sand

BENEFITS OF HIR TILES ADHESIVE

- Longer Performance and better adhesion
- Longer working Time and Zero wastage
- After application if any changes or errors in tiles fixing it can be adjusted or removed
- No spots on tiles after fixing
- No hollow
- No shrinkage and Resist temperature variation with better bonding and Preserve Mother Nature

SURFACE PREPARATION BEFORE USING TILES ADHESIVE

- Surface like floor, wall should be cement based or plastered.
- Floor and wall should be clean, free from oil or greasy material, loose particles.
- Wall should not be painted or wall putty or hollow or weakly plastered.
- If it is painted or wall putty remove it with grinder and make surface rough for better bonding.
- Surface should be moist and water free.
- Wall tiles should be dip in water for 30 minutes before using.
- Vitrified, Porcelain tiles or digital tiles should be clean and free from dust or other foreign materials.
- Cement surface or plastered wall should be well cured with water before fixing tiles.

MAKING OF TILES ADHESIVE

- Take water in bucket and add gradually HIR tiles adhesive in it.
- Quantity of water is 20% +/-5% in 20 kg tiles adhesive bag.
- Take 3 liters of water and add HIR tiles adhesive gradually to bucket and mix well using mixture machine simultaneously.
- Add water from remaining 1 liter as per usage and requirement of viscosity of tiles adhesive.
- Gradually mix using mixture for 3 minutes.
- Keep mixture on standby for 5 minutes. Again mix it for a minute before use.
- Use tiles adhesive within time period of mentioned pot life using right method of trowel.

HOW TO APPLY TILES ADHESIVE IN RIGHT WAY

- HIR tiles adhesive should be mixed properly to achieve uniform consistency.
- Use notched trowel from 12 mm to 25 mm that gives bed thickness from 5 mm to 12 mm respectively.
- Back butter thin layer of HIR tiles adhesive on tiles/marble/stone using flat side of trowel.
- Comb on additional adhesive with the notched side of the trowel in one direction straight either vertical or horizontal.
- Place the clean tiles/marble/stone on correct tiles adhesive bed thickness.
- Move the tiles/marble/stone in opposite direction to that of tiles adhesive troweled.
- By doing this we will get better surface bonding between tiles/marble/stone and tiles adhesive.
- Use spacers if tiles/marble/stone fix in exterior area, exposed to sun and water like parking and veranda or if fixing tiles on exterior wall.

PRECAUTIONS WHILE USING TILES ADHESIVE. ERRORS TO AVOID WHILE USING TILES ADHESIVE

- Choose correct tiles adhesive. Selection of tiles adhesive depends on
 1. **Size of tiles:** stone, marble
 2. **Type of tiles:** stone, marble
 3. **Area of application:** interior or exterior
 4. **Height of application**
- Keep HIR Tiles Adhesive in company packing away from moisture, water and direct sunlight.
- Correct surface preparation and cleaning, curing of tiles/marble/stone before using.
- Use whole pack in one go or keep it away from moisture, water and direct sunlight.

PREPARATION OF TILES ADHESIVE

- Add water in bucket 1st then adhesive gradually. Add tiles adhesive to water for uniform mixture. If water is added to tiles adhesive leads to lumps formation and forms air bubbles. This in future leads to failure of tiles and adhesive bonding.
- Use tiles adhesive within time of pot life. Increase in atmospheric temperature reduces pot life. Pot life of any product mentioned by any company is according to standardized temperature, relative humidity. So actual pot life may vary. If tiles adhesive used after pot life leads to bond failure between tiles and adhesive.
- Moving of trowel in one direction is must. Make sure to slight movement of tiles/marble/stone in opposite direction to remove air bubble and hollow space for 90% plus bonding.
- Traditional or uneven movement in direction of trowel leads to formation of air pockets and lower bonding %.
- Use spacer if laying tiles on exterior wall or floor to avoid bending and hollowing of tiles in future.
- Use spacer and fill epoxy if laying tiles in bathroom to avoid water leakage.
- Avoid using of floor and grouting for 24 hours to 48 hours depending upon atmospheric temperature and weather.

PHYSICAL PROPERTY

FORM	POWDER
COLOUR	GREY
BASE	MINERAL
ADHESIVE THICKNESS	3MM TO 12MM
BULK DENSITY	1.36KG/LTR
MIX DENSITY	1.95KG/LTR
TEMPERATURE RANGE OF APPLICATION	From +10° C to +40° C

TECHNICAL DATA

WATER DEMAND	20+ 5%
POT LIFE (30°C)	2 HOURS
OPEN TIME (30°C)	25-30 minutes
ADJUSTING TIME B111 Tiles (30°C)	20-25 minutes
ADJUSTING TIME B1a Tiles (30°C)	35-40 minutes
TENSILE ADHESION STRENGTH 28Days	≥ 1 N/mm ²
LIGHT FOOT TRAFFIC	24 HOURS
HEAVY FOOT TRAFFIC	72 HOURS
GROUTING IN WALL	12 HOURS

SAFETY FEATURES:

Wear suitable protective clothing, gloves and goggles. After contact with skin, wash immediately with plenty of clean water. In case of contact with eyes rinse immediately with plenty of clean water and seek medical advice. Keep out of reach of children.

PACK: 20KG

SELF LIFE: 12 Month in original packaging ,protected from direct sunlight and stored in dry condition

NOTE:

Working time/setting time will vary slightly with temperature: higher temperatures = shorter; lower temperatures = longer.