

## MANUFACTURER

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## PRODUCT NAME

**FORTRESS HEAVY DUTY ADHESIVE**

## PRODUCT DESCRIPTION

Fortress Heavy Duty Adhesive is a high quality polymer modified adhesive, specially formulated for natural and manufactured stone, interior and exterior applications. Fortress Heavy Duty Adhesive is a variation of Fortress Tile Adhesive with greater workability and flexibility, better adhesion property and higher adhesive tensile strength.

## SURFACE PREPARATION

Surface must be structurally sound, dry, clean and free from dirt, dust and other contaminants. To ensure proper bond, scour the bonding surface.

## COVERAGE

Depending on the weight and porosity of the stone material, coverage will be approximately 3.00 to 7.00 square meters (thin set).

## SHELF LIFE

Always store in cool dry place. Fortress Heavy Duty Adhesive can be usable within one (1) year.

## ADVANTAGES

- ✓ Superior Bonding Quality
- ✓ Polymer Modified Mortar Mix
- ✓ Economical
- ✓ Flexible
- ✓ Environment Friendly



## TECHNICAL DATA

Physical Test	PNS ISO 13007-1:2005	Results
Water demand	Not Applicable	20 ml / 100 g
Workability	Not Applicable	Very Good
Open time	≥ 20 minutes	20 minutes
Pot life	Not Applicable	4 hours
Standing strength	Not Applicable	Very Good
Slip resistance	≤ 5 mm	0 mm
Tensile adhesion strength	≥ 1.0 N/mm <sup>2</sup>	2.5 N/mm <sup>2</sup>
Tensile adhesion strength after water immersion	≥ 1.0 N/mm <sup>2</sup>	2.0 N/mm <sup>2</sup>

## COLOR

Gray

## CAUTION

Use gloves and eye protection. Avoid contact with eyes and prolonged skin contact. If eye contact occurs, wash with clean water and consult a doctor immediately.

## WARRANTY

Fortress Heavy Duty Adhesive is covered from the date of purchase when used on substrate which conforms to local building codes and when installed, in accordance with the manufacturer's instruction. Fortress Heavy Duty Adhesive will replace those which are determined to be defective. This warranty is limited to the original purchaser and may not be transferred to any subsequent owner. This warranty does not cover damage resulting from: settlement of the building or other wall movement, mixing with other chemicals or additives and prolonged exposure to heat and other irregular temperature. This warranty covers only manufacturing defects in Fortress Heavy Duty Adhesive. It will not cover labor costs or damages obtained from removal and replacement of defective products.

## MIXING AND APPLICATION



1. Mix 25 kg (.1 Bag) of Fortress Heavy Duty Adhesive with 7-8 liters of tap water. Do not use saline water. Use plastic container or any non-absorptive material as mixing base. Always put water first in container before adding stone adhesive. Pour sufficient quantity of Fortress Heavy Duty Adhesive that may be used within a pot life of 3-4 hours.

<b>MIXING RATIO</b>	<b>POT LIFE</b>
7-8 LITERS +  25 KGS HEAVY DUTY ADHESIVE	3-4 HOURS



2. Stir with a mixing tool. Mixed until a thick, pasty & lump free consistency is achieved. Prepare only sufficient quantity that can be applied within 3-4 hours. Wait for 15 minutes and stir again the mixture. Do not mix the newly prepared stone adhesive with an old one, just to extend the pot life. This will cause a lumpy mixture and will lessen the workability of the heavy duty adhesive.

**FOR BEST RESULT**

USE MIXING TORQUE



3. Spread the stone adhesive and comb with a notched trowel uniformly. Before applying and spreading heavy duty adhesive, dumpen substrates lightly in water and stack vertically to remove excess water before installation. Observe the 15 minutes open time of Fortress Heavy Duty Adhesive to ensure the stone are not laid on material that has lost its adhesive power.

**OPEN TIME**

15 MINUTES



4. Lay the stones on the surface, to ensure good adhesion. Press and beat the stones on the setting bed. Adjust the stones within the adhesive's open time of 15 minutes. Regularly check the adhesive beds to ensure that no film has formed on the surface. If so, remove that layer and spread a new batch of mixture.



5. Clean excess mortar on the surface, use sponge with warm soapy water. Do not use any acids in cleaning the surface of the stone material. This will cause discoloration or will create blotches on the stone. Do not let excess mortar to fully dry on stone surface. Heavy Duty Adhesives are cement base. Any dried up excess adhesives will be difficult to remove.



6. Apply grout after 24 hours or until stones are held firmly in place. Clean excess grout on surfaces using a sponge with warm, soapy water. Do not use acids in cleaning. Allow 24 hours or until stone and grout have fully dried, before applying stone sealer. In applying stone sealer, use a soft bristle paint brush.

## PACKAGING

