

# Multipurpose Epoxy Adhesive



# Limitations of Cement Based Adhesives

“Cement based Adhesive technology is one of the most commonly used in the concrete industry. But despite most cement based adhesives being formulated to be a commercial grade material, they still have the following limitations:

- Limited chemical resistance
- May cause effloresce and rust, discolour or stain
- Requires additive to be suitable for immersion or other heavy duty applications
- Not suitable for hygienic applications
- Don't have the bond strength to match an epoxy



# Multipurpose Adhesive

- 2 part Epoxy Adhesive
- Available in 2 handy to use sizes 20ltr Commercial Kits & 4ltr Handy kits



# Multipurpose Adhesive

## Suitable applications

- Interior and exterior fixing of anchor studs
- Spot fixing of Tiles normally requiring Mechanical fixing
- Hard to bond to surfaces like Metal( once prepared), Concrete and non porous surfaces.
- Submersed situations where mechanical fixing is normally used.
- Areas subjected to high climate changes



# Multipurpose Adhesive

## Recommendations

- Mix full kits where possible, Mixing an incorrect ratio will affect the performance.
- Minimum cured adhesive depth must be 5mm.
- Suitable for horizontal and vertical joints installations.
- Surface to be bonded to should be between 10 – 35°C. Surfaces that have heated significantly (by sunlight for example) should not be worked on until cooled.
- The product will be influenced by temperature. Slow to cure when cold, and will speed up when warm.
- Further work service such as installation of silicones, sealants, fixtures must be made after 8 – 12 hours.

# Multipurpose Adhesive

## Mixing

Required mixing ratio: 1 Part A to 1 Part B, by weight or volume

*Note: Volume measurement only applies when Part A and Part B's temperature are between 20 – 25°C*

1. Mix both parts for 3 minutes using a heavy duty electric mixing drill on slow, or by hand using a small stiff trowel.
2. Check the material is thoroughly mixed and consistent throughout. Check the sides of the pail.

Note: For best mixing ensure the material is at approx. 20 °C. At low temperatures or if the product appears to be thick, the compound should be warmed before mixing, if necessary; when the ambient temperature is high, cooling the Aftek Multipurpose Epoxy in a water bath is recommended. Place Part A and Part B containers separately, in a warm / cooling bath for at least 10 – 15 minutes. Then allow the material to return to ambient temperature (20 – 23 °C)



# Application Instructions

- For best mixing ensure the material is at approx. 22 °C.
- At low temperatures or if the product appears to be thick, the compound should be warmed by placing the full pail in a bath pail of warm water before mixing.
- if necessary; when the ambient temperature is high, cooling the Multipurpose Epoxy in a water bath is recommended to avoid fast skinning/curing.
- Place Part A and Part B containers separately, in a warm or cool bath for at least 10 – 15 minutes. Then allow the material to return to ambient temperature (20 – 23 °C)



# Application Instructions



Part B  
Hardener



Part A  
Epoxy resin



# Application Instructions



Incorrect mix

lumpy and streaky consistency



Correct consistency

Smooth, uniform colour with no streaks



# Application Instructions for tiling



For larger format tiles, it is advisable to make up a template to the correct dia using the RLA coverage chart and mark out using a pencil Note: make sure that any markings don't transfer to Tile face as shadowing, always test porosity of tile.



Apply Epoxy using a stiff trowel or scraper at approx. 10mm thickness within the marked areas, this should allow for a final compressed adhesive thickness of 5mm while achieving the correct dia to support the tile.

# Application Instructions for tiling



Once epoxy has been applied to the tile, it is then ready to be installed onto the suitable wall surface.

Care should be taken to avoid transfer of adhesive onto the front tile surface, any wet adhesive spots on the face of the tile should be removed using mild soap and water or RLA Wipes.



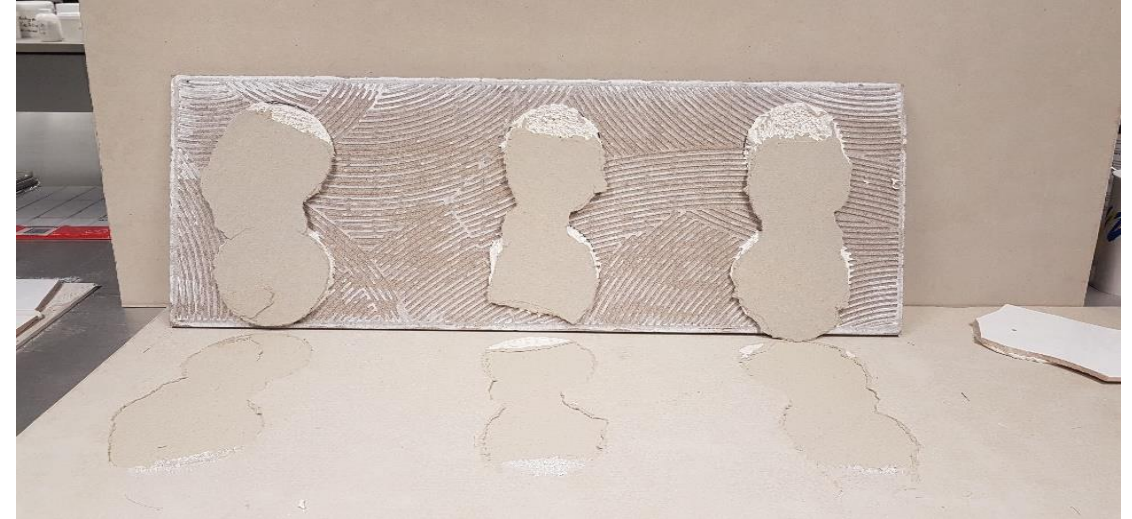
It is always good practise to periodically lift a freshly installed tile and check coverage dia, also there may be a need to pack out with more epoxy on undulating surfaces..

# Application Instructions for tiling



Pre cast panel

Correctly mixed and installed Multipurpose Epoxy once cured, will destroy the substrate or tile biscuit which ever is weaker..



# Can replace mechanical fixing:



**Note: Tile and substrate must be suitable to support weight !.**

# Summary

- RLA Multipurpose Epoxy, your solution to commercial hard to bond to surfaces.
- Market leading epoxy technology.
- One of the leading products on the market in this area.
- Easy to mix highly cost effective system.
- High Bond Strength and durability.



# Thank you

