



TECHNICAL DATA SHEET

M103

POLYMER MODIFIED TILE ADHESIVE

DESCRIPTION:

M103 a quality, polymer modified adhesive with mastic properties suitable for internal and external floor and wall tiling applications

PRODUCT FEATURES:

- White
- C2TES1 Classification
- Good flexibility
- Excellent non slump properties
- Excellent material consistency and mastic properties

AREAS OF USE

- Floor and wall tiling to internal and external areas
- Internal and external wet areas
- Bonding of porcelain and vitrified tiles, mosaic, terracotta and natural stone (not moisture sensitive)
- Large format tile installations

SUBSTRATES:

- Concrete
- Sand/cement screed
- Sand/cement render
- Compressed fibre cement sheeting
- Ceramic tile underlay
- Plasterboard
- Approved waterproof membranes*

* Contact PCP Products for recommendations

SUBSTRATE PREPARATION:

- All surfaces must be clean, sound, dry, and free from dirt, dust, existing coatings, sharp and foreign objects and all other loose and contaminating materials
- All surfaces and substrates must be fit for purpose and installed as per manufacturers recommendations, relevant building codes and standards
- Concrete slabs must be allowed to cure for at least 28 days and have a wood float finish
- Steel trowelled and dense concrete surfaces must be mechanically abraded to roughen surfaces, or primed with a suitable non-porous primer
- Rendered and screeded surfaces must be allowed to cure for at least 7 days
- Existing tiled surfaces must be sound and well bonded to the substrate. Surface of tiles to be mechanically roughened to remove at least 80% of the tile glaze for direct fixing. Alternatively prime tiles with a suitable non-porous primer

PRIMING:

Highly porous and non-porous surfaces should be primed before the installation of M103 using suitable primers

MIXING:

- Add 5.5-6litres of clean water into a clean mixing pail
- Gradually add M103 adhesive and mix continuously using an electric stirrer with mixing paddle attachment to form a smooth, lump-free consistency
- Always add powder to the liquid
- Allow the adhesive to stand for 3 minutes and re-mix before using

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APPLICATION:

- Preparation and tiling to be carried out as per AS 3958
- Apply the adhesive onto the substrate using a suitable notch trowel appropriate to the size of the tile
- Apply adhesive to the substrate at a rate of 1m² at a time to avoid the adhesive skinning before tiles can be laid
- Skinned adhesive must be removed and replaced with fresh adhesive
- Place tiles and press them into the wet bed of adhesive using a sliding action, preventing voids and achieving full coverage of adhesive under the tiles
- The final bed thickness of the adhesive should be 2mm for wall tiling and 3mm for floor tiling
- Avoid disturbing the tiled surface for at least 24 hours after completion of tiling

COVERAGE:

- Approximately 7m² per 20kg bag (10mm Notched trowel)

GROUTING:

- Grouting application can commence after adhesive has cured for 24 hours*
- Remove any dried adhesive that has leached into the grout joint before grouting

*Drying times may be extended in humid conditions and colder temperatures

CLEAN UP:

- Remove wet adhesive from face of tiles using a damp cloth
- Tools and equipment can be cleaned with water while the adhesive is still wet
- Dried adhesive can only be removed by mechanical means

HEALTH & SAFETY:

Refer to the most recent Safety Data Sheet (SDS) for information and advice regarding physical, ecological, toxicological and other safety-related data including handling, first aid, storage and disposal

LIMITATIONS:

- Do not apply when surface or ambient temperatures are above 35°C or below 5°C.
- Not to be used over timber flooring
- Not suitable for use with moisture sensitive stone
- Not to be used for immersed areas
- Contact PCP Products for additional information

SHELF LIFE / STORAGE:

A bag of M103 will have a shelf life of approximately 12 months when stored off floors in a cool, dry environment

PRODUCT INFORMATION

Colour	White
Shelf life	12 months
Packaging	20kg bags
Coverage	7m ²

APPLICATION PROPERTIES

Figures based on @ 23°C, 50% RH*

*Temperature, humidity and tile/surface porosity will vary dry times

Mixing Ratio	5.5-6litres water/bag
Open Time	30 minutes
Adjustment Time	40 minutes
Pot Life	1 hour
Grouting Time	24 hours
Ready for wet area service	3 days

PERFORMANCE PROPERTIES (ISO 13007)

Tensile adhesion strength after 28 days	≥ 1MPa
Water immersion	≥ 1MPa
Freeze/thaw	≥ 1MPa
CLASSIFICATION	C2TES1