

TECHNICAL DATA SHEET

R216

PREMIUM RUBBER MODIFIED TILE ADHESIVE

R216 is a premium grade, white, rubber-modified flexible tile adhesive. Holding Green Tag Certification, this eco-friendly and user-safe adhesive provides outstanding coverage and high cost-efficiency. It is ideal for installing all varieties of ceramic, stone, and mosaic tiles across interior and exterior wall and floor applications.

PRODUCT FEATURES:

- Respirable silica free
- Green Tag Certified
- C2TES1 Classification
- Economical
- Exceptional coverage
- Excellent non slump properties
- Excellent workability and consistency
- Suitable for use over green screeds and concrete

AREAS OF USE

- Floor and wall tiling to internal and external areas
- Internal and external wet areas
- Fixing porcelain and vitrified tiles, mosaics, and natural stone (not moisture sensitive)
- Underfloor heating applications

SUBSTRATES:

- | | |
|---------------------|------------------------------------|
| • Concrete | • Compressed fibre cement sheeting |
| • Screed | • Ceramic tile underlay |
| • Render | • Plasterboard |
| • Plasterboard | • Acoustic underlay |
| • Acoustic underlay | • Approved waterproof membranes* |

* Contact PCP Products for recommendations



SUBSTRATE PREPARATION:

- Ensure all application surfaces are structurally sound, dry, clean, and entirely free of dust, dirt, oil, grease, wax, laitance, curing compounds, sealers, paint, or any loose contaminants that might inhibit a strong adhesive bond.
- Substrates must be structurally fit for their intended design and installed according to the manufacturer's specifications, relevant building codes, and current standards.
- Concrete Surfaces: New concrete slabs must cure for at least 7 days, feature a wood-float finish, and possess a minimum compressive strength of 20MPa. Dense, steel-trowelled, or burnished concrete must be mechanically abraded to create a textured surface profile. Alternatively, prime using NON POROUS PRIMER.
- Screeds & Renders: Sand/cement screeds and renders must be allowed to cure for a minimum of 24 hours prior to tiling.
- Existing tiles: Must be sound and firmly bonded. Mechanically abrade the surface to remove at least 80% of the existing glaze, or prime the surface directly with NON POROUS PRIMER

PRIMING:

Highly porous and non-porous surfaces should be primed before the installation of R216 tile adhesive using suitable primers. Porous/Absorbent Substrates: Apply POROUS PRIMER via brush or roller at a minimum coverage rate of 1 Litre per 8m² per coat. Allow to dry completely. Non-Porous/Dense Substrates: Apply a NON POROUS PRIMER using a brush or roller at a minimum coverage rate of 1 Litre per 10m². Allow to dry completely.

MIXING:

Ratio: 8 Litres of clean water per 20kg bag of PCP R216. Method: Pour the clean water into a clean mixing vessel. Slowly add the R216 Premium Tile Adhesive while mixing continuously with an electric drill and paddle attachment. Stir thoroughly until a smooth, lump-free consistency is achieved. Always add powder to liquid. Allow the mixture to stand for 3 minutes to slake, then re-stir briefly before application.

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APPLICATION:

All preparation and tiling should be carried out in accordance with AS3958.1- Guide to the Installation of Tiles.

- Once the surface has been prepared in accordance with PCP's instructions then apply the adhesive onto the substrate using an appropriate sized notched trowel for the tile size.
- For tiles larger than 300 x 300mm back-butter the tiles in addition to notching the floor. With clip systems use a 12, 15 or 20mm notch and back butter the tile to ensure coverage complies with the standard.
- R216 Premium Tile Adhesive should be applied onto the substrate at a rate of 1m² a time.
- Application rates greater than this can result in the adhesive skinning before the tiles are laid into it.
- Once the adhesive is applied onto the substrate ensure that it does not skin prior to bedding the tiles into it. Once the adhesive skins do not lay tiles into it, but remove it and apply fresh adhesive. When placing the tiles into the adhesive press them in by using a sliding action. Ensure no voids occur and full coverage of adhesive is under the tiles.
- For tiles with lugs, grooves or uneven backing it may be required to butter the back of the tile with adhesive in addition to trowelling the adhesive onto the substrate. The final bed thickness of the adhesive should be at least 2mm for wall tiling and 3mm for floor tiling.
- Once the tiling is completed do not disturb the tiled surface for at least 24 hours at 20°C.

COVERAGE:

- Approximately 10-12m² per 20kg bag (10mm Notched trowel)

GROUTING:

- Grouting application can commence 24 hours after the completion of tiling. Grout will fully dry in 24 hours at 20°C, after which time the area can be put into service.

*Drying times may be extended in humid conditions

CLEAN UP:

Excess adhesive from the face of the tiles can be cleaned up with a damp cloth while the adhesive is still in a wet state. Tools and other equipment can be cleaned using water while the adhesive is still wet. Dried adhesive to 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 R216 will have a shelf life of approximately 12 months when stored off floors in a cool, dry environment

PRODUCT INFORMATION

Colour	Off White
Shelf life	12 months
Packaging	20kg bags
Coverage -10mm notch	10-12m ²

APPLICATION PROPERTIES

Figures based on @ 23°C, 50% RH*

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

Mixing Ratio	8.0 litres water/20kg bag
Open Time	30 minutes
Adjustment Time	40 minutes
Pot Life	1 hour
Grouting Time	24 hours
Ready for wet area service	3-4 days

PERFORMANCE PROPERTIES (ISO 13007)

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