

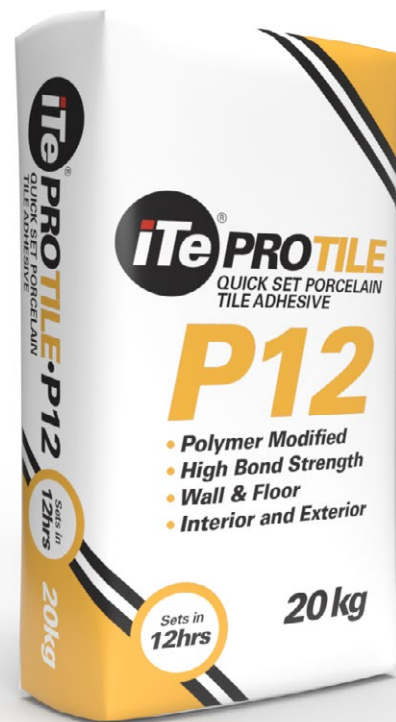
iTe[®] PRO TILE • P12

**QUICK SET PORCELAIN
TILE ADHESIVE**

DATA SHEETS

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1. TECHNICAL DATA

1.1 DESCRIPTION:

iTePROTILE P12 – Quick Set Porcelain Tile Adhesive is a grey cement-based adhesive, designed for fixing porcelain and large format ceramic tiles

iTePROTILE P12 is suitable for use in both interior and exterior applications.

iTePROTILE P12 has been formulated to comply with the C2 adhesive requirements as set out in the SANS 52004:2012 / EN 12004:2007 standards.

iTePROTILE P12 has a pot life of 90 minutes and after application the adhesive will set within 12 hours, whereafter grouting application can commence.

iTePROTILE P12 should not be used in applications where white or light-colored natural stone tiles are installed as the grey adhesive may show through as a result of staining (In these applications **iTePROTILE PX6** should be used)

1.2 PREPARATION NOTES:

All Substrates or renders on walls must be hard, sound, dry and free of dust, dirt and other materials such as grease, oil, paint and gypsum and skim plaster renders or any other contaminants which may compromise the adhesion properties of the adhesive to the surface.

Any cracks, brittle friable surfaces or hollowness of screeds should be removed and made good prior to commencing with the installation of tiles and **iTePROTILE P12**

Other surfaces: Refer to the appropriate priming technique for these applications in the **iTe PROTILE BASE** technical data sheet.

Off-shutter concrete, epoxy or polished floor surfaces must be mechanically abraded by means of course grinder or scabbling machine.

Existing Gypsum skimcoats and PVA paint must be prepared by chipping 80% of the application area.

Any bitumen or enamel paint should be completely removed from the application area.

Any surface with vinyl sheeting or planks will need to be removed and all old fixative removed mechanically scraper or floor grinder.

**** Prime surface by mixing by volume 1 part of iTe PROTILE KEY together with 2 parts of iTe PROTILE BASE and apply in form of a slurry by means of a block brush. Allow for 4-6 hours to cure before proceeding with tiling application.**

New surfaces must be allowed to cure and dry out sufficiently for at least:

Concrete:	6-7 weeks
Sand Cement Screeds:	4 weeks
Brick Work:	3-4 weeks
Renders:	10 Days

All surfaces must be lower than 5% prior to tiling commences. Should the moisture content exceed this amount and or no damp proof membrane is used in ground contact slabs, **VAPORiTe®+PLUS** epoxy moisture barrier is to be applied as per the **VAPORiTe®+PLUS** datasheet together with **iTe® SLURRY**.



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1.3 PRIMING:

Should priming be required (as per datasheet) – Prepare a slurry using 1 part of iTe **PRO TILE KEY** and 2 parts of **iTe PRO TILE P12**. Apply with a block brush over the area and allow 4-6 hours to cure prior to commencing the tiling.

1.4 MIXING:

Use 5 litres of water per bag. Do **NOT** over-water.

Add the powder to the required amount of clean cool water in a clean mixing container whilst using a +/-900 rpm electric paddle mixer until a lump free screed is produced. This will take approximately 3 to 4 minutes. Stop the mixer and scrape the inside of the mixing vessel to allow any unmixed product to fall onto the paste. Briefly remix the **iTe PRO TILE P12** again.

The mixed product should be used within 90 minutes after mixing.

For areas that are exposed to high thermal stresses, temperature changes or where additional flexibility is required such as tiling onto suspended slabs, high traffic areas, external applications or wet areas – replace the water required with **iTe PRO TILE BOND**.

Note:

- Warm ambient temperatures, surfaces, and water above 30°C will shorten the pot life and working time of the adhesive, it can also lead to flash setting of the adhesive.
- Low ambient temperature, surface and water at 10°C and below will compromise the curing of the adhesive.
- Do not add additional water to adhesive that has been standing for a period of time as this will compromise the integrity and final strength of the adhesive.

1.5 APPLICATION:

Apply the adhesive onto the prepared surface using the relevant sized notched trowel. **iTe PRO TILE P12** should be applied at a thickness of between 3mm and 6mm but can be used to a thickness of 12mm in isolated area. Tiles should be buttered to fill any voids with adhesive where necessary. Press tiles firmly into the adhesive and use a rubber mallet. Ensure the tile has been laid onto a full bed of adhesive. Do not tile over structural or expansion joints. Do not allow more than 15 minutes open time before laying the tiles to avoid adhesive from skinning.

Should the application criteria fall outside of the above parameters please refer to the technical datasheet or consult with the **iTe Products** Technical team.

1.6 GROUTING:

Allow at least 12 hours for the adhesive to cure before commencing with **iTe[®] PRO TILE GROUT**.

1.7 COVERAGE:

iTe PRO TILE P12 has a yield of approximately 6m²/20kg bag when using a notched wall trowel (6mm) and approximately 4m²/20 kg bag when using a notched floor trowel 10mm. Actual coverage will be determined by floor and wall conditions on site as well as workmanship.

NOTE: The coverage figure is based on a flat level surface. Additional material should be allowed for where the surface is rough or uneven.



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1.8 TECHNICAL DATA:

Pot life:	60 minutes
Mixing water required:	5 litres per bag
Working temperature:	10-30°C
Initial set:	10h
Final set:	12h
Pack Size:	20kg

1.9 GENERAL:

All data given has been tested at a room temperature of 20°C and 50% relative humidity. Site conditions vary and setting times may accelerate under warmer conditions and slow down under colder or wetter conditions. The applicator should adjust his work method accordingly.

1.10 WARNING:

Do not ingest. Keep away from children and pets. Do not empty into a drain. Wear rubber gloves, and in the event of contamination, rinse thoroughly with cold water. Seek medical advice if irritation or discomfort persists. For further information, consult the relevant health and safety data sheet.

1.11 WARRANTY:

iTe[®] PRO TILE P12 is guaranteed to be free of any manufacturing defect. **iTe PRODUCTS[®]** further warrants that if **iTe[®] PRO TILE P12** is applied in accordance with the relevant method statement issued for the specific project, by an approved applicator, the system is guaranteed for the life of the floorcovering.

1.12 GREEN BUILDING COUNCIL VOC REQUIREMENTS:

iTe[®] PRO TILE P12 contains no Volatile Organic Compounds and therefore is totally compliant with all relevant requirements to be classed as "green". The standard short report, theoretical VOC content declaration and VOC confirmation notice is available on request or can be downloaded from our website - www.iteproducts.co.za.

1.13 IMPORTANT NOTICE:

The information supplied in our literature is given in good faith. We reserve the right to modify information supplied as and when needed. **iTe[®] Products** warrants that **iTePRO TILE P12** is manufactured to the highest possible standards and that it contains no defects. It is warranted that when applied in accordance with our relevant method statement by accredited applicators trained by us, the compound will perform as required. **iTe[®] Products** cannot be liable for factors outside of its control, such as defective substrates. For further information pertaining to **iTePRO TILE P12** visit: www.iteproducts.co.za

2. MATERIAL SAFETY DATA

2.1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Name of substance/preparation:

Commercial product name: **iTe PRO TILE P12**

2.2 USE OF SUBSTANCE / PREPARATION

Industrial/Commercial/Residential.

Used for: Fixing ceramic wall and floor tiles to concrete, cement, plaster and brick.

All other areas of application to be agreed with the Application Engineering/Technical Marketing Department of the manufacturer.

2.3 COMPANY NAME

Manufacturer/distributor:.....iTe Products (Pty) Ltd

Street:.....7 Clarke Street South

State/postal code/city:.....Alrode, 1451

Telephone:.....+27 11 864 4918

Telefax:.....+27 11 864 2123

Information about the Safety Data Sheet:.....+27 11 864 4918

eMail:.....info@iteproducts.co.za

2.4 HAZARDS IDENTIFICATION

2.4.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification (67/548/EEC, 1999/45/EC):

R-Phrase Description – irritant to eyes

This product is not a dangerous preparation within the meaning of Directive 1999/45/EC.

2.4.2 LABELLING

Labelling (67/548/EEC, 1999/45/EC):

R-Phrase Description – 36/38 Irritant to eyes

S-Phrase Description

2.4.3 FURTHER HAZARDS TO HUMAN AND ENVIRONMENT:

The product does not have any further hazards

2.5 COMPOSITION/INFORMATION ON INGREDIENTS

2.5.1 CHEMICAL CHARACTERIZATION:

Mixture

2.5.2 DESCRIPTION:

Mixture of cement and sand mixture with other non hazardous additions



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2.6 FIRST-AID MEASURES

2.6.1 GENERAL INFORMATION:

Under ordinary workplace conditions: No special measures required

2.6.2 AFTER CONTACT WITH THE SKIN

Wash with plenty of water or water and soap.

First-aid measures cont.

2.6.3 AFTER CONTACT WITH THE EYES

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

2.6.4 AFTER SWALLOWING

If conscious, give several small portions of water to drink. Do not induce vomiting. In cases of sickness seek medical advice (show label if possible).

2.6.5 ADVICE FOR THE PHYSICIAN

Due to its physical properties, may cause mechanical irritation. Product may agglutinate in the gastro-intestinal tract. Medical assistance should be sought. Depending on the symptoms, invasive measures may be necessary.

2.7 FIRE-FIGHTING MEASURES

2.7.1 SUITABLE EXTINGUISHING MEDIA

No further relevant information available

2.7.2 SPECIAL EXPOSURE HAZARDS ARISING FROM THE SUBSTANCE OR PREPARATION ITSELF, COMBUSTION PRODUCTS, RESULTING GASES

No further relevant information available

2.7.3 SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING

No further relevant information available

2.8 ACCIDENTAL RELEASE MEASURES

2.8.1 PERSONAL PRECAUTIONS

Wear a dust mask.

2.8.2 ENVIRONMENTAL PRECAUTIONS

Do not allow to enter into sewer, drainage or potable water systems.

2.8.3 METHODS FOR CLEANING UP

Take up mechanically and dispose of according to local/state/federal regulations.

2.8.4 FURTHER INFORMATION:

Observe notes under section 7 with regards to safe handling.

Observe section 8 for information on personal protective equipment.

2.9 HANDLING AND STORAGE

2.9.1 HANDLING

2.9.1.1 PRECAUTIONS FOR SAFE HANDLING:

Avoid dust formation.

2.9.1.2 PRECAUTIONS AGAINST FIRE AND EXPLOSION:

No special measures required



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2.9.2 STORAGE

2.9.2.1 CONDITIONS FOR STORAGE ROOMS AND VESSELS:

No special measures required

2.9.2.2 ADVICE FOR STORAGE OF INCOMPATIBLE MATERIALS:

Not applicable.

2.9.2.3 FURTHER INFORMATION FOR STORAGE:

Not applicable.

2.10 EXPOSURE CONTROLS AND PERSONAL PROTECTION

2.10.1 EXPOSURE LIMITS -

2.10.1.1 EXPOSURE LIMITED AND CONTROLLED EXPOSURE IN THE WORK PLACE LIMITED AND CONTROLLED

2.10.1.2 GENERAL PROTECTION AND HYGIENE MEASURES:

Do not breathe dust. Do not eat when handling.

2.10.1.3 PERSONAL PROTECTION EQUIPMENT

Respiratory protection

In case of dust formation: fine dust mask without protection rating .

2.10.1.4 EYE PROTECTION

Recommendation in case of dust formation: tight fitting protective goggles .

2.10.1.5 EXPOSURE TO THE ENVIRONMENT LIMITED AND CONTROLLED

Prevent material from entering surface waters and soil.

2.11 PHYSICAL AND CHEMICAL PROPERTIES

2.11.1 GENERAL INFORMATION

Physical state / form.....: solid - powder

Colour: grey - brown

Odour: odourless

2.11.2 IMPORTANT INFORMATION ABOUT THE PROTECTION OF HEALTH, SAFETY AND THE ENVIRONMENT

Property:	Value:
Melting point / melting range	not applicable
Boiling point / boiling range	not applicable
Flash point	not applicable
Ignition temperature	product is not self-igniting
Lower explosion limit (LEL)	not applicable
Vapour pressure	not applicable
Bulk Density	1300-1500 kg/m ³ (DIN EN ISO 60)
Water solubility / miscibility	insoluble, sets in water
pH-Value	11
Viscosity (dynamic)	not applicable

2.12 STABILITY AND REACTIVITY

2.12.1 GENERAL INFORMATION:

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

2.12.2 CONDITIONS TO AVOID

None known.

2.12.3 MATERIALS TO AVOID

None known.

2.12.4 HAZARDOUS DECOMPOSITION PRODUCTS

If stored and handled properly: none known. At increased temperature: acetic acid.

2.13 TOXICOLOGICAL INFORMATION

2.13.1 GENERAL INFORMATION:

According to our present state of knowledge no damaging effect expected when treated in accordance with standard industrial practices and local regulations where applicable.

2.13.2 TOXICOLOGICAL TESTS

2.13.3 ACUTE TOXICITY

2.13.3.1 PRIMARY IRRITATION:

Eyes: irritating effect

2.13.3.2 SENSITIZATION:

no sensitizing effects known

2.13.3.3 FURTHER INFORMATION:

2.13.3.4 THE PRODUCT SHOWS THE FOLLOWING ASPECTS:

Irritant

2.14 ECOLOGICAL INFORMATION

2.14.1 ECOTOXICITY

No expected damaging effects to aquatic organisms.

Effects in sewage treatment plants (bacteria toxicity: respiration-/reproduction inhibition):

According to current knowledge adverse effects on water purification plants are not expected.

2.14.2 MOBILITY

No further relevant information available

2.14.3 BIO-ACCUMULATION POTENTIAL

No adverse effects expected.

2.14.4 OTHER HARMFUL EFFECTS

2.14.5 ADDITIONAL INFORMATION

General information:

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2.15 DISPOSAL CONSIDERATIONS

2.15.1 MATERIAL

Do not allow product to reach sewerage system.

Disposal should be in accordance with local, state or national legislation.

Mix product residue with water, allow to harden and dispose of as construction waste.

2.15.2 UNCLEANED PACKAGING

Recommendation: Completely discharge packaging. Paper packaging may be recycled.

2.16 TRANSPORT INFORMATION

2.16.1 LAND TRANSPORT ADR AND RID

Road ADR:

Valuation: Not regulated for transport

Railway RID:

Valuation: Not regulated for transport

2.16.2 TRANSPORT BY SEA IMDG-CODE

Valuation: Not regulated for transport

Marine Pollutant: no

2.16.3 AIR TRANSPORT ICAO-TI/IATA-DGR

Valuation: Not regulated for transport

3. THEORETICAL (VOC) CONTENT

3.1 PRODUCT:

iTe PRO TILE P12 Quick Set Porcelain Tile Adhesive

3.2 ABBREVIATIONS

S.G. = Specific Gravity

g/ml = grams/millilitre

g/l = grams/litre

3.3 FORMULAS

Sum of VOC's in Sealer/Primer formulation = VOC %

$VOC (g/l) = VOC \% \times S.G. \times 10$

3.4 S.G. (g/ml) = 1.00g/ml

3.5 VOC % = 0%

3.6 $VOC (g/l) = 0 \times 1.00 \times 10 = 0g/l$

Maximum VOC content (Specified by Green Building Council of South Africa): 50g/l



Peter Funke

Product Development Manager



4. WARRANTY

iTe PRODUCTS warrants that **iTe PRO TILE P12** is manufactured to comply with international EN standards for C1 class as per requirements of cementitious tile adhesive in respect of setting time determination, Drying Kinetics, and Tensile strength.

iTe PRO TILE P12 is a quick set tile adhesive for porcelain and large format ceramic tiles.

iTe PRO TILE P12 compliant with SANS 52004, provided the thickness of application allows the elimination of deviations. **iTe PRO TILE P12** is typically recommended for use in residential, commercial, light industrial and health-care applications, provided the sub-base is of a suitable quality.

This warranty is based on the substrate being sound, dry and free of contamination. All applications are to be carried out in strict compliance with the method statement as issued. The warranty is dependent on all the above conditions being conformed with, including a signed compliance confirmation from the applicator.

iTe PRODUCTS further warrants that the products are manufactured to strict quality control standards and that the products supplied are free of defect.

5. SUGGESTED SPECIFICATION

Apply _____m² **iTe® PRO TILE P12** Quick Set Porcelain Tile Adhesive in accordance with the manufacturer's specifications to a thickness of _____mm.