

iTe[®] PROTILE·C15

**PROFESSIONAL CERAMIC
TILE ADHESIVE**

DATA SHEETS

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1. TECHNICAL DATA

1.1 DESCRIPTION:

iTe[®] PRO TILE C15 - Professional Tile Adhesive is a general-purpose grey cement-based tile adhesive, designed for ceramic wall and floor tile applications for use in the professional market. iTe[®] PRO TILE C15 can be used for fixing ceramic, natural stone, brick, and some clay tiles. iTe[®] PRO TILE C15 is suitable for use in both interior and exterior applications. iTe[®] PRO TILE C15 has been formulated to comply with the C1T tiles adhesive requirements as set out in the SANS 52004:2012 / EN 12004:2007 standards. When mixed with iTe[®] PRO TILE BOND as total replacement of the water, iTe[®] PRO TILE C15 will comply with C2T tile adhesive requirements.

iTe[®] PRO TILE C15 has a pot life of 3 hours and after application the adhesive will set within 15 hours, whereafter grouting application can commence.

iTe[®] PRO TILE C15 can have application thicknesses of between 3-6mm and up to 12mm in isolated areas used in conjunction with standard ceramic tiles. This product is only designed for the above-mentioned criteria. Any application falling outside this scope, the applicable purpose made PRO TILE product would need to 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 iTe[®] PRO TILE C15.

Other surfaces: Refer to the appropriate priming technique for these applications in the iTe[®] PRO TILE 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 skim coats 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.

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:

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 with a block brush. Allow for 4-6 hours to cure before proceeding with tiling application

1.4 MIXING:

Use 4.5 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[®] PROTILE C15 again.

The mixed product should be used within 3 hours 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[®] PROTILE 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, 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[®] PROTILE C15 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.

When fixing lightweight or soft backed glazed ceramic wall tiles the adhesive application should not exceed 5mm in thickness.

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 20 hours for the adhesive to cure before commencing with iTe[®] PROTILE GROUT.

1.7 COVERAGE:

iTe[®] PROTILE C15 has a yield of approximately 6m²/20kg bag when using a notched wall trowel (6mm)



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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.

1.8 TECHNICAL DATA:

Pot life:	3 hours
Mixing water required:	5 litres per bag
Working temperature:	10-30°C
Initial set:	8 hours
Final set:	15 hours
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[®] PROTILE C15 is guaranteed to be free of any manufacturing defect. iTe PRODUCTS[®] further warrants that if iTe[®] PROTILE C15 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[®] PROTILE C15 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 or given by our employees is given in good faith. We reserve the right to update this information at any time without prior notice.

2. MATERIAL SAFETY DATA

2.1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Name of substance/preparation:

Commercial product name:iTe PRO TILE C15

2.2 USE OF SUBSTANCE / PREPARATION

Industrial/Commercial/Residential.

Used for: Impregnation and protection coating

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

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*

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:

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 C15 Professional 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 C15** 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 C15 is a standard tile adhesive for ceramic tiles only and not porcelain tiles.

iTe PRO TILE C15 compliant with SANS 52004, provided the thickness of application allows the elimination of deviations. **iTe PRO TILE C15** 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 C15 Professional Ceramic Tile Adhesive in accordance with the manufacturer's specifications to a thickness of _____mm.