

DATA SHEETS

Contents

1. TECHNICAL DATA	2
2. MATERIAL SAFETY DATA	5
3. THEORETICAL (VOC) CONTENT	10
4. WARRANTY	11
5. SUGGESTED SPECIFICATION	11



1. TECHNICAL DATA

1.1 DESCRIPTION:

iTePRO TILE BASE - is a grey cement-based product, designed for preparing surfaces when used in conjunction with **iTePRO TILE KEY**, prior to tiling using **iTePRO TILE** tile adhesives.

iTePRO TILE BASE is intended to be used with **iTePRO TILE KEY**, formulated for wall and floor applications for improved adhesion and also has waterproofing characteristics.

iTePRO TILE BASE used with **iTePRO TILE KEY**, is an effective priming and keying agent when tiling over very smooth off shutter concrete, power floated cement surfaces, wood or epoxy coated surfaces, correctly treated steel, tile on tile applications and concrete brick work

iTePRO TILE BASE has a pot life of 1 hours and after application a drying time of between 6-12 hours depending on climatic and site conditions

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 **iTePRO TILE BASE**

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 skimcoats and PVA paint must 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 PRO TILE KEY together with 2 parts of iTe PRO TILE 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
Render	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**.



iTe[®]PROTILE-BASE

BASECOAT SURFACE PREPARATION

1.3 PRIMING:

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

1.4 MIXING:

Mixing ratio is 2 PARTS **iTePROTILE BASE** : 1 Part **iTePROTILE KEY** i.e. 20kg **iTePROTILE BASE** to 10 ltr **iTePROTILE KEY**.

Add the required amount of **iTePROTILE KEY** into a clean mixing container.

Add the **iTePROTILE BASE** into the **iTePROTILE KEY** gradually whilst mixing using a +/-900 rpm electric paddle mixer until a lump free slurry 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 **iTePROTILE BASE** again.

The mixed product should be used within 1 hour of mixing.

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 **iTePROTILE KEY** to the mixed slurry that has been standing for a period of time as this will compromise the integrity and final strength of the product.

1.5 APPLICATION & THICKNESS:

Apply the slurry onto the prepared surface using a builder's block brush to an average thickness of about 2mm, the applicator is to ensure full coverage and consistency of the application over the area is obtained

Allow a drying time of between 6-12 hours before tiling with **iTePROTILE**, this will vary depending on climatic and site conditions.

1.6 COVERAGE:

20kg **iTePROTILE BASE** mixed with 10Ltr **iTePROTILE KEY** has a yield of approximately 30m² in a single coat application of 2mm thick. Actual coverage will be determined by floor and wall conditions on site as well as workmanship.

1.7 TECHNICAL DATA:

Pot life:	1 Hours
Mixing ratio :	2 Parts iTePROTILE Base : 1 Part iTePROTILE KEY
Working temp.:	10-30°C
Initial set:	1 Hour
Final set:	6 – 12 hours
Pack Size:	20kg



1.8 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.

1.9 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.

1.10 WARRANTY:

iTe® PRO TILE BASE is guaranteed to be free of any manufacturing defect. **iTe PRODUCTS®** further warrants that if **iTe® PRO TILE BASE** 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.

1.11 GREEN BUILDING COUNCIL VOC REQUIREMENTS:

iTe® PRO TILE BASE 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.

1.12 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 **iTe® PRO TILE BASE** 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 **iTe PRO TILE BASE** 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 • BASE**

2.2 USE OF SUBSTANCE / PREPARATION

Industrial/Commercial/Residential.

Usage: Designed for preparing surfaces when used in conjunction with **iTePRO TILE KEY**, prior to tiling using **iTePRO TILE** tile adhesives.

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.



iTe[®] PRO TILE-BASE **BASECOAT SURFACE PREPARATION**

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	<i>not applicable</i>
Boiling point / boiling range	<i>not applicable</i>
Flash point	<i>not applicable</i>
Ignition temperature	<i>product is not self-igniting</i>
Lower explosion limit (LEL)	<i>not applicable</i>
Vapour pressure	<i>not applicable</i>
Bulk Density	<i>1300-1500 kg/m³ (DIN EN ISO 60)</i>
Water solubility / miscibility	<i>insoluble, sets in water</i>
pH-Value	<i>11</i>
Viscosity (dynamic)	<i>not applicable</i>

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:**

iTePRO TILE•BASE - cement-based preparation product.

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•BASE** 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•BASE is a standard tile adhesive and grout for a range of BASE tiles inclusive of glass, porcelain and natural stone.

iTe PRO TILE•BASE compliant with SANS 52004, provided the thickness of application allows the elimination of deviations. **iTe PRO TILE•BASE** 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 BASE** Basecoat Surface Preparation in accordance with the manufacturer's specifications to a thickness of _____mm.