

DATA SHEETS

Contents

1.	TECHNICAL DATA	2
2.	MATERIAL SAFETY DATA	3
3.	METHOD STATEMENT	8
4.	THEORETICAL (VOC) CONTENT	10
5.	SHORT REPORT VOC	11
6.	VOC CONFIRMATION NOTICE	12
7.	WARRANTY	13
8.	SUGGESTED SPECIFICATION	14

1. TECHNICAL DATA

1.1 DESCRIPTION

PATCHiTe[®] Rapid Set is a cement based screed patching compound which enables contractors to fill and repair large holes or damaged areas in a cement screed prior to the application of a levelling or self-levelling compound such as **LEVELiTe[®]** F30 for the installation of floor coverings. **PATCHiTe[®]** can be applied in thickness from 1.5mm to 60mm in one application.

PATCHiTe[®] Rapid Set would typically be used in applications where the filling of depressions/holes deeper than 10mm in a screed with a self-levelling compound would be too expensive. **PATCHiTe[®]** dries within three hours, depending on climatic conditions, which makes it ideal when time constraints are important. We recommend the subsequent application of the self-levelling screed compound be started the next day.

1.2 PRECAUTIONS

Only enough **PATCHiTe[®]** that can be applied in 10 to 15 minutes must be mixed at a time, as it sets extremely rapidly. Equipment must be rinsed off continuously to ensure removal of the **PATCHiTe[®]** before it sets.

USAGE RATE: Approximately 2Kg per m² per mm thickness. (1 x 25Kg Bag should yield approximately 1.2m² at 10mm thickness)

1.3 MIXING

Pour sufficient **PATCHiTe[®]** powder for a mix based on the above factors into a mixing vessel such as a bucket, or rubber bin as for self-levelling compound. Gradually add water while stirring the mixture until a consistency similar or the same as a normal plaster mix for trowelling the mix into the hole is obtained.

The dry components should be lump free and evenly distributed through the wet mix. A water ratio of 17% water to powder should not be exceeded.

1.4 APPLICATION

When properly mixed, pour the mixture into the area to be patched, using a flat steel trowel to obtain a smooth, level surface flush with the surrounding surface. Remember to work quickly within the ten to fifteen minutes that the mixture is workable.

While the first mix is being applied, mix the second batch to ensure a continuous flow of material until the area to be patched is complete.

When the patch has been completely filled, leave the area to dry before the next step is started. As a general rule the patch should be left for at least three hours before applying levelling compound. The drying is dependent on climatic conditions as well as the thickness of the application, and we recommend that the levelling compound be applied the next day.

1.5 CLEAN UP

Clean the equipment used in mixing and application as soon as possible with running water, and if necessary a cleaning cloth to prevent the **PATCHiTe[®]** from setting on the equipment.

2. MATERIAL SAFETY DATA

2.1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Name of substance/preparation:

Commercial product name:.....**PATCHiTe**[®]

2.1.1 USE OF SUBSTANCE / PREPARATION

Industrial/Commercial

Use for: Repairing holes in cement based screeds.

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

2.1.2 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

2.2 HAZARDS IDENTIFICATION

2.2.1 CLASSIFICATION

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.

2.2.2 LABELLING

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

R-Phrase Description - 36/38 Irritant to eyes

S-Phrase Description

2.2.3 FURTHER HAZARDS TO HUMAN AND ENVIRONMENT:

The product does not have any further hazards.

2.3 COMPOSITION/INFORMATION ON INGREDIENTS

2.3.1 CHEMICAL CHARACTERIZATION:

Mixture

2.3.2 DESCRIPTION:

Mixture of cement and sand mixture with other non hazardous additions.



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RAPID-SET CEMENTITIOUS SCREED-PATCHING COMPOUND

2.4 FIRST-AID MEASURES

2.4.1 GENERAL INFORMATION:

Under ordinary workplace conditions: No special measures required.

2.4.2 AFTER CONTACT WITH THE SKIN:

Wash with plenty of water or water and soap.

2.4.3 AFTER CONTACT WITH THE EYES:

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

2.4.4 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).

2.4.5 ADVICE FOR THE PHYSICIAN:

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

2.5 FIRE-FIGHTING MEASURES

2.5.1 SUITABLE EXTINGUISHING MEDIA:

Water spray, water mist, extinguishing powder, foam, carbon dioxide .

2.5.2 EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASONS:

Water jet.

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

No further relevant information available.

2.5.4 SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING:

No further relevant information available.

2.6 ACCIDENTAL RELEASE MEASURES

2.6.1 PERSONAL PRECAUTIONS:

Wear a dust mask.

2.6.2 ENVIRONMENTAL PRECAUTIONS:

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

2.6.3 METHODS FOR CLEANING UP:

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

2.6.4 FURTHER INFORMATION:

Observe notes under section 7 with regards to safe handling.

Observe section 8 for information on personal protective equipment.



PATCH

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2.7 HANDLING AND STORAGE

2.7.1 HANDLING:

Precautions for safe handling:

Avoid dust formation.

Precautions against fire and explosion:

No special measures required

2.7.2 STORAGE:

Conditions for storage rooms and vessels:

No special measures required

2.8 EXPOSURE CONTROLS AND PERSONAL PROTECTION EQUIPMENT

2.8.1 EXPOSURE LIMITS:

2.8.2 EXPOSURE LIMITED AND CONTROLLED:

2.8.3 EXPOSURE IN THE WORK PLACE LIMITED AND CONTROLLED:

2.8.4 GENERAL PROTECTION AND HYGIENE MEASURES:

Do not breathe dust. Do not eat when handling.

2.8.5 PERSONAL PROTECTION EQUIPMENT:

2.8.6 RESPIRATORY PROTECTION:

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

2.8.7 EYE PROTECTION:

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

2.8.8 EXPOSURE TO THE ENVIRONMENT LIMITED AND CONTROLLED:

Prevent material from entering surface waters and soil.

2.9 PHYSICAL AND CHEMICAL PROPERTIES

2.9.1 GENERAL INFORMATION:

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

Colour: grey - brown

Odour: odourless

2.9.2 IMPORTANT INFORMATION ABOUT THE PROTECTION OF HEALTH, SAFETY AND THE ENVIRONMENT:

Property: Value: Method:

Melting point / melting range: not applicable

Boiling point / boiling range: "

Flash point.....: "

Auto-ignition temperature...: product is not self-igniting

Lower explosion limit (LEL): not applicable

Vapour pressure.....: "

Bulk density...: 1300-1500 kg/m³ (DIN EN ISO 60)

Water solubility / miscibility....: Insoluble sets in water

pH-Value: 11

Viscosity (dynamic): not applicable



PATCH

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2.10 STABILITY AND REACTIVITY

2.10.1 GENERAL INFORMATION:

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

2.10.2 CONDITIONS TO AVOID

none known

2.10.3 MATERIALS TO AVOID

none known .

2.10.4 HAZARDOUS DECOMPOSITION PRODUCTS

If stored and handled properly: none known.

At increased temperature: acetic acid.

2.11 TOXICOLOGICAL INFORMATION

2.11.1 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.

2.11.2 TOXICOLOGICAL TESTS

Acute toxicity

Primary irritation:

Eyes: irritating effect

Sensitization:

no sensitizing effects known

Further information:

The product shows the following aspects:

Irritant

2.12 ECOLOGICAL INFORMATION

2.12.1 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.

2.12.2 MOBILITY

No further relevant information available

2.12.3 BIO-ACCUMULATION POTENTIAL

No adverse effects expected.

2.13 DISPOSAL CONSIDERATIONS

2.13.1 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.



PATCH

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2.13.2 UNCLEANED PACKAGING

Recommendation:

Completely discharge packaging. Paper packaging may be recycled.

2.14 TRANSPORT INFORMATION

2.14.1 REGULATORY INFORMATION

2.14.2 NATIONAL REGULATIONS

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

2.15 OTHER INFORMATION

2.15.1 MATERIAL

The above information describes exclusively the safety requirements of the product(s) and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product(s) described in terms of the legal warranty regulations. Properties of the product are to be found in the respective product leaflet.

2.15.2 FURTHER INFORMATION:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

3. METHOD STATEMENT

3.1 THICKNESS & USAGE

PATCHiTe® can be applied from 1.5mm thick to approximately 60mm in a single application. Usage is at approximately 2kg per m² per mm thickness. (1 x 25Kg Bag should yield approximately 1.2m² at 10mm thickness)

PATCHiTe® is available in 25kg bags.

3.2 PREPARATION

Prior to applying **PATCHiTe®** Patching Compound, it is important to determine that the substrate is sound (cracks are often an indication of delamination between the slab and cement sand screeds, and it is advisable to tap the screed at regular intervals and listen for hollow sounds which indicate poor inter-coat adhesion), dry, ie less than 5%MC (Verify the maximum permissible screed moisture level of the floor covering to be installed, and that screed moisture tests indicate suitability), free of contaminants and dust free.

Should hollow areas be found, this is best rectified by establishing the affected area, cutting a border around the area with an angle grinder, removing the loose screed prior to the application of the **PATCHiTe®**.

Assess the access area where the **PATCHiTe®** is to be mixed and if necessary, place protective plastic sheeting on the ground to prevent cement dust contamination. When the job is complete, it should be clean and tidy, as it was found.

3.3 PRIMING

If the substrate is dusty, the substrate must be primed with **BONDiTe®** primer and bonding agent, using a lamb's wool roller or brush, making sure that the entire surface is well coated. The **BONDiTe®** should bind the dust and/or loose particles. Please note that the primer must be allowed to dry properly before application of the **PATCHiTe®**. This normally takes approximately 30 minutes.

3.4 MIXING

Smaller areas can be dealt with by mixing in a 20 litre bucket. It is recommended that a slow speed electric mixer or drill with a 10mm shank mixing paddle is used to ensure thorough mixing. Larger areas may require a mixing vessel that can accommodate say 20 litres of water. Rubber or thick-walled plastic rubbish bins are well suited. Mixed compound can then be carried to the application area. The mixture should have a consistency similar to that of a plastering cement/sand mix. Do not use more than a 17% water content, ie., a 25kg bag should not have more than 4 litres of water mixed into it.

PATCHiTe® starts setting almost immediately after mixing, and remains workable for approximately 15 to 20 minutes. Only enough should be mixed that can be properly applied in this time frame. Pour sufficient **PATCHiTe®** into the mixing vessel. Slowly add water to the powder while mixing to avoid lumps, until a consistency similar to a plaster mix is obtained, with the dry material lump free and evenly distributed through the wet mix.



PATCH **iTe**[®]

**RAPID-SET CEMENTITIOUS
SCREED-PATCHING COMPOUND**

3.5 APPLICATION

The mixed **PATCHiTe**[®] should be poured into the area to be patched, using a flat steel trowel to obtain a smooth, level surface finish flush with the surrounding surface. Remember to work quickly within the ten to fifteen minutes that the mixture is workable.

While the first mix is being applied, mix the second batch to ensure a continuous flow of material until the entire area to be patched is complete.

When the patch has been completely filled, leave the area to dry before the next step is started. As a general rule, the patch should be left for at least three hours before applying levelling compound.

3.6 GENERAL

Drying time is dependent on factors such as atmospheric conditions including humidity, temperature etc.. This should be taken into account before starting the next step in the screed preparation procedure.

3.7 CLEAN UP

Clean the equipment used in mixing and application as soon as possible with running water, and if necessary, a cloth to prevent the **PATCHiTe**[®] from setting on the equipment.

3.8 PRECAUTION

If the eyes are contaminated, rinse them under running water until all traces of **PATCHiTe**[®] are flushed out. If scratchiness persists, consult with a medical practitioner. People who show signs of skin irritation when exposed for lengthy periods, should wear gloves.

4. THEORETICAL (VOC) CONTENT

4.1 **PRODUCT:**

PATCHiTe[®] Rapid Set Patching Compound

4.2 **ABBREVIATIONS**

S.G. = Specific Gravity

g/ml = grams/millilitre

G/l = grams/litre

4.3 **FORMULAS**

Sum of VOC's in Patching Compound formulation = VOC %

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

4.4 **S.G. (g/ml) = 1.00g/ml**

4.5 **VOC % = 0%**

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

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

Peter Funke

Product Development Manager

5. SHORT REPORT VOC

7 August 2014

Short Report: Product PATCHiTe Rapid set patching compound

iTe Products **PATCHiTe**[®] patching compound meets the Green Building Council of South Africa's credit criteria for the following reasons:

Maximum VOC allowable (gms/litre)	50g/l
PATCHiTe [®]	0g/l

This is based on the fact that the product contains no organic solvents.

I declare the above information to be correct.

Signed:



Shaun Van Heerden

6. VOC CONFIRMATION NOTICE

7 August 2014

To: All interested Parties

Dear Sir/Madam,

Re: GBCSA requirements for VOC levels in flooring adhesives, sealers and primers

We hereby confirm that **PATCHiTe**[®] Rapid set patching compound as manufactured by **iTe PRODUCTS**[®] (Pty) Ltd complies with the GBCSA requirements in respect of permissible VOC levels in flooring adhesives, sealers and primers.

The attached Short Report, VOC Datasheet and this signed letter provides the necessary supporting documentation required as per page 107 of the GBCSA Technical Manual.

The Flooring Contractor must provide written confirmation that **PATCHiTe**[®] is to be used in the installation of the floor covering.

Should there be any questions or queries, please contact the writer at 082 772 9137 or via e-mail at sales@iteproducts.co.za

Yours faithfully,



Shaun Van Heerden



PATCH **iTe**[®]

**RAPID-SET CEMENTITIOUS
SCREED-PATCHING COMPOUND**

7. WARRANTY

PATCHiTe[®] is manufactured to comply with international EN standards for patching compounds in respect of setting times, hardness and compressive strength.

PATCHiTe[®] is compliant with EN expansion and shrinkage standards, is resistant to substrate moisture levels below 5% screed moisture.

PATCHiTe[®] is a trowellable, very rapid setting patching compound, used to achieve a flat surface prior to the application of a self-levelling compound to finally achieve an end finish compliant with SANS 10070:2007. The surface hardens to >25mPA, and is suitable for castor traffic, high point loadings and light vehicular traffic. **PATCHiTe**[®] is typically recommended for use in residential, commercial, light industrial and health-care applications, where holes or hollows need to be filled, provided the sub-base allows.

This warranty is based on the substrate being sound, dry and free of contamination. All application is to be carried out in strict compliance with the method statement as issued.

iTe PRODUCTS[®] further warrants that the products are manufactured to strict quality control standards and that the products supplied are free of defect. We cannot be held responsible for failure due to the substrate failing, or physical or excessive mechanical damage occurring to the applied product.

8. SUGGESTED SPECIFICATION

Patch holes in screed with **PATCHiTe**[®] patching compound in accordance with the manufacturer's specifications to a thickness of _____mm after priming with **BONDiTe** primer.