

LEVEL *iTe* F30[®]

SELF-LEVELLING SCREED

DATA SHEETS

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KM 754556
EN 13813:2002
Cementitious Screed



1. TECHNICAL DATA

1.1 DESCRIPTION

LEVELiTe[®] F30 self-levelling floor screed compound is a free flowing self-levelling compound developed for heavy commercial and light industrial applications that sets to 25MPa. **LEVELiTe[®] F30** has been specifically formulated for levelling and smoothing rough or uneven sub-floors prior to the installation of floor coverings and is suitable for use on cementitious screeds, concrete power floated surfaces, hardened old adhesive residues and soundly adhered ceramic and similar surfaces. Its high strength formulation has been designed to repair a variety of sub-floor types, including cement/sand screeds, and concrete floors. The applied compound can be walked on after 2 to 3 hours. Floor coverings – such as carpet, tiles, vinyl and engineered wood – can typically be installed 24 hours after application. **LEVELiTe[®] F30** can be applied in a feathered finish down to approximately 0,3mm, up to 15mm thick in one application. **LEVELiTe[®] F30** is resistant to moisture once cured, and will not swell or delaminate. Final strength is 25MPa. **LEVELiTe[®] F30** is pumpable.

1.2 SURFACE PREPARATION

NOTE: For internal use only due to the inability to control environmental factors such as wind or heat. It is recommended that direct to ground sub-floors be protected from rising damp to prevent dimensional changes in the floor covering (confirm the maximum permissible moisture content that the floor covering or adhesive can tolerate). **LEVELiTe[®] F30** is resistant to rising moisture and should not swell or delaminate if exposed to reasonable moisture. Standard European practice has evolved that when vinyl flooring is to be installed, the surface bed is to be sealed with an epoxy moisture barrier, or similar. **VAPORiTe[®] +PLUS** epoxy moisture barrier system has been specifically developed for this purpose. Please refer to the **VAPORiTe[®] +PLUS** data sheet. The surface must be hard, sound, dry and free of dust, dirt and other materials such as grease, oil and paint.

Due to its flow characteristics, sealing strips should be placed at doorways or where the levelling compound is not desired.

1.3 PRIMING

BONDiTe[®] primer and bonding agent is an essential component in priming the substrate prior to application of **LEVELiTe[®]**. It acts as a pore sealer which will maintain the flow life and prevent air bubbles rising through the applied **LEVELiTe[®]** screed smoothing compound. Accordingly it is necessary to prime all surfaces with **BONDiTe[®]**. With very smooth non-absorbent sub-floors e.g. epoxy coated water barriers and ceramic tiles, it is essential to apply **iTe SLURRY[®]**, or to lightly grind the surface to promote adhesion. When the slurry is dry, the surface should be ready for application of the **LEVELiTe[®] F30** levelling compound.

1.4 MIXING

Use 5 litres of water per 20kg bag. Do **NOT** over-water. Add the powder to the required amount of clean cool water in a clean mixing container whilst using a +/-600 rpm electric paddle mixed 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 **LEVELiTe[®] F30** and then discharge onto the affected floor.

Mixed **LEVELiTe[®] F30** should be applied within 5 minutes at 20°C. This time is extended at lower temperatures and reduced at higher temperatures.



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1.5 APPLICATION

Pour the mixed **LEVELiTe[®] F30** onto the prepared sub-floor. The mixed mortar will flow out and self-level. Use a suitable notched epoxy rake or spreader to obtain the required thickness; while a long-handled pin leveller/rake with height adjustment will simplify this operation and yield more consistent results. A long handled spiked roller must be used to prevent air blisters from marring the finished surface. **LEVELiTe[®] F30** has excellent self-healing properties which extend for some 30 minutes or longer after the pour, which minimises cold joints and surface irregularities.

1.6 THICKNESS

LEVELiTe[®] F30 can be applied at a minimum thickness of 0.3mm to a maximum of 15mm in a single application.

When applying **LEVELiTe[®] F30** at a thickness of over 15mm, incorporate up to an equal volume of 3 or 6mm clean, dry, fines free, graded gravel. Alternatively, multiple layers can be applied to the dry previous layer. Contact our technical advisors for detailed information. Bulking-up of the product can be a viable option for significant sub-floor deviations where speed of drying is a factor.

1.7 COVERAGE

Approximately 1.4 kg of **LEVELiTe[®] F30** per 1 mm thickness per m². E.g. one 20kg bag of **LEVELiTe[®] F30** will give enough material to cover approximately 4.7m² at an average thickness of 3mm.

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 GENERAL

All data given was tested at a room temperature of 20°C and 50% humidity. Please be aware that the technical data may alter if the climatic conditions are in contrast to that in which the product has been tested, either hardening more quickly or setting slower.

1.9 WARRANTY

LEVELiTe[®] F30 is guaranteed to be free of any manufacturing defect. **iTe PRODUCTS** further warrants that if **LEVELiTe[®] F30** 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.

1.10 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 GREEN BUILDING COUNCIL VOC REQUIREMENTS

LEVELiTe[®] F30 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 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:.....**LEVELiTe[®] F30**

2.1.1 USE OF SUBSTANCE / PREPARATION

Industrial/Commercial.

Used for: Levelling of floors

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

2.4 FIRST-AID MEASURES

2.4.1 GENERAL INFORMATION:

Under ordinary workplace conditions: No special measures required



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2.4.2 AFTER CONTACT WITH THE SKIN

Wash with plenty of water or water and soap.

First-aid measures cont.

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 .5.2 Extinguishing media which must not be used for safety reasons

Water jet .

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

No further relevant information available

2.5.3 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.

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



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2.7.2 STORAGE

Conditions for storage rooms and vessels:

No special measures required

Advice for storage of incompatible materials:

not applicable .

Handling and storage continued..

Further information for storage:

not applicable .

2.8 EXPOSURE CONTROLS AND PERSONAL PROTECTION EQUIPMENT

2.8.1 EXPOSURE LIMITS -

2.8.2 EXPOSURE LIMITED AND CONTROLLED

2.8.2.1 EXPOSURE IN THE WORK PLACE LIMITED AND CONTROLLED

General protection and hygiene measures:

Do not breathe dust. Do not eat when handling.

Personal protection equipment

Respiratory protection

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

Eye protection

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

2.8.2.2 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: not applicable

Flash point.....: not applicable

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

Lower explosion limit (LEL): not applicable

Vapour pressure.....: not applicable

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

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

pH-Value: 11

Viscosity (dynamic): not applicable



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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.

2.12.4 OTHER HARMFUL EFFECTS

2.12.5 ADDITIONAL INFORMATION

General information:

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

2.13.2 UNCLEANNED PACKAGING

Recommendation:

Completely discharge packaging. Paper packaging may be recycled

2.14 TRANSPORT INFORMATION

2.14.1 LAND TRANSPORT ADR AND RID

Road ADR:

Valuation: Not regulated for transport

Railway RID:

Valuation: Not regulated for transport

2.14.2 TRANSPORT BY SEA IMDG-CODE

Valuation: Not regulated for transport

Marine Pollutant: no

2.14.3 AIR TRANSPORT ICAO-TI/IATA-DGR

Valuation: Not regulated for transport

2.15 REGULATORY INFORMATION

2.15.1 NATIONAL REGULATIONS

National and local regulations must be observed.

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

2.16 OTHER INFORMATION

2.16.1 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.

2.16.2 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. THEORETICAL (VOC) CONTENT

3.1 PRODUCT:

LEVELiTe[®] F30 Self Levelling Floor Screed Compound

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

Director

4. SHORT REPORT VOC

01 January 2023

Short Report: Product LEVELiTe F30 Self Levelling Floor Screed

iTe Products **LEVELiTe[®] F30** Self Levelling Floor Screed Compound meets the Green Building Council of South Africa's credit criteria for the following reasons:

Maximum VOC allowable (gms/litre) 50g/l

LEVELiTe[®] F30 0g/l

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

I declare the above information to be correct

Signed:



Peter Funke

Director

5. VOC CONFIRMATION NOTICE

01 January 2023

To: All interested Parties

Dear Sir/Madam,

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

We hereby confirm that **LEVELiTe F10, F30, F50 and F100** Self Levelling Floor Screed Compounds as manufactured by iTe Products (Pty) Ltd comply 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 **LEVELiTe F10, F30 or F50** is to be used in the installation of the floor covering.

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

Yours faithfully,



Peter Funke
Director

6. WARRANTY

iTe PRODUCTS warrants that **LEVELiTe[®] F30** is manufactured to comply with international EN standards for P2 and P3 class self levelled screeds in respect of Flow determination, setting time, Drying Kinetics, and compressive strength.

LEVELiTe[®] F30 is compliant with EN expansion and shrinkage standards, is resistant to substrate moisture levels below 6% screed moisture, and will not expand or delaminate. It will also not powder or soften.

LEVELiTe[®] F30 self-levels to an end finish compliant with SANS 10070:2007, provided the thickness of application allows the elimination of deviations. The surface hardens to >25mPA, and is suitable for castor traffic, high point loadings and light vehicular traffic. **LEVELiTe[®] F30** 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.

LEVELiTe[®] F30 is guaranteed not to delaminate, break up or deteriorate under a vinyl floor covering for the life of the floor covering itself, provided that it is applied on a sound substrate in accordance with our specifications as indicated above.

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



7. SUGGESTED SPECIFICATION

Apply _____m² **LEVELiTe®F30** self-levelling compound system in accordance with the manufacturer's specifications to a thickness of _____mm after priming with **BONDiTe** primer.