

LEVEL iTe[®] FX
RAPID-CURING
SELF-LEVELLING SCREED

DATA SHEETS

Contents

1. TECHNICAL DATA	2
2. MATERIAL SAFETY DATA	5
3. METHOD STATEMENT	11
4. THEORETICAL (VOC) CONTENT	16
5. SHORT REPORT VOC	17
6. VOC CONFIRMATION NOTICE	18
7. WARRANTY	19
9. SUGGESTED SPECIFICATIONS	20



LEVELiTeFX
RAPID-CURING
SELF-LEVELLING SCREED

1. TECHNICAL DATA

1.1 DESCRIPTION

LEVELiTe®FX is an Express, Rapid Set self-levelling floor screed compound developed for a wide range of applications including residential, commercial and light industrial applications that sets to 25MPa.

LEVELiTe®FX has been specifically formulated to enable same-day installation of floor coverings. It 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 within an hour, and the flooring installed some 3 to 4 hours after application. A special test is conducted to determine how rapidly the flooring can be laid. **LEVELiTe®FX** can be applied in a feathered finish down to approximately 0,3mm, up to 15mm thick in one application. **LEVELiTe®FX** is resistant to moisture once cured, and will not swell or delaminate. Final strength is 25MPa.

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®FX** 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 PREPARATION NOTES

It is important to minimize air movement over the applied **LEVELiTe®FX** once it has been poured and raked. Keep doors and windows closed at this point to minimize air movement. Once the initial set has kicked in, it is good practice to open accessible doors and windows to enable air movement and reduce atmospheric moisture build up during the curing process.

1.4 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. power floated floors, epoxy coated water barriers, and ceramic tiles it is essential to apply **iTeSLURRY®** or to lightly grind the surface to promote adhesion. When the slurry is dry, the surface should be ready for application of the **LEVELiTe®FX** levelling compound.



LEVELiTeFX

RAPID-CURING SELF-LEVELLING SCREED

1.5 MIXING

Use 5.0 liters of water per 21,5 kg 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®FX** and then discharge onto the affected floor.

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

1.6 APPLICATION

Pour the mixed **LEVELiTe®FX** 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®FX** has excellent self-healing properties which extend for some 30 minutes or longer after the pour, which minimises cold joints and surface irregularities.

1.7 THICKNESS

LEVELiTe®FX can be applied at a minimum thickness of 0.3mm to a maximum of 10mm in a single application.

1.8 CURING TIME

It is important to monitor the curing so that the floor covering is not installed prematurely. Please obtain the curing measure from **iTe Products®** and place it periodically on the surface of the freshly applied **LEVELiTe** (say every 20 minutes) until the tell-tale dis-colouration stops. It is then safe to start the flooring installation process.

1.9 TECHNICAL DATA

Pot life: 20 minutes

Mixing water required: 5 litres per bag

Initial set: 35-40 minutes

Compressive strength:

- 15MPa @ 1 day
- 25MPa @ 28 days

Flexural Strength: 9MPa @ 28 days

Trafficable: 2 to 3 hours

Pack Size: 21.5kg

1.10 GENERAL

All data given was 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. To prevent uneven drying, air drafts should be minimised by keeping windows and doors shut.



LEVEL [®] iTe FX

RAPID-CURING SELF-LEVELLING SCREED

1.11 WARNING

Do not ingest. Keep away from children and pets. Do not empty into a drain. When used continuously, wear rubber gloves, and rinse thoroughly to remove any residue. If the eyes are contaminated, rinse with cold water. If irritation persists, seek medical advice. For further information consult the relevant health and safety data sheet.

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. iTeProducts warrants that **LEVELiTe[®]FX** 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 for the lifetime of the floorcovering installed on it. iTeProducts cannot be liable for factors outside of its control, such as defective substrates.*

2. MATERIAL SAFETY DATA

2.1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Name of substance/preparation:

Commercial product name:.....**LEVELiTe®FX**

2.1.1 USE OF SUBSTANCE / PREPARATION

Residential/Industrial/Commercial.

Used for: Levelling of floors

Available in 10Kg and 35Kg Paper Bags

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 nonhazardous additions



LEVEL **FX**

RAPID-CURING SELF-LEVELLING SCREED

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 gastro-intestinal 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.



LEVEL **FX**

**RAPID-CURING
SELF-LEVELLING SCREED**

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

Advice for storage of incompatible materials:

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



LEVEL[®]iTeFX

RAPID-CURING SELF-LEVELLING SCREED

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

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



LEVEL[®]iTeFX

RAPID-CURING SELF-LEVELLING SCREED

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.



LEVEL **FX**

**RAPID-CURING
SELF-LEVELLING SCREED**

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.

2.17 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.



LEVELiTeFX

**RAPID-CURING
SELF-LEVELLING SCREED**

3. METHOD STATEMENT

3.1 BASIC LEVELITE APPLICATION

3.1.1 THICKNESS & USAGE

LEVELiTe®FX can be applied from 0.3mm thick to a maximum of 10mm in one application, while multiple layers can be added, with a coat of **BONDiTe®** primer between layers. A bulked up system can also be used, whereby one incorporates an equal volume of 3mm clean, dry fines-free graded gravel to the mix. Approximately 1.5 kg of **LEVELiTe®** per mm per m² will be required. **BONDiTe®** must be used as a primer onto the concrete substrate to prevent air bubbles from rising once the **LEVELiTe®** is applied, to ensure a proper flow of the compound over the substrate and to bind the surface well. **BONDiTe®** is applied at an average of 4m² per litre.

LEVELiTe®FX is available in 21,5kg bags. **BONDiTe®** is available in 5 & 25Litre Plastic Containers.

3.1.2 PREPARATION

Prior to applying **LEVELiTe®FX** Self Levelling Compound, it is important to determine that the substrate is sound (cracks are often an indication of delamination between the slab and sand/ cement screeds, and it is advisable to tap the screed at regular intervals and listen for hollow sounds which indicate poor inter-coat adhesion), with no loose or friable material evident, 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.

LEVELiTe® is resistant to moisture, and will not expand or delaminate when exposed to reasonable levels of screed moisture, free of contaminants and dust free.

NOTE: For internal use only, as there is no control over natural elements such as heat or air movement. 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). Standard European practice has evolved that when vinyl flooring is to be installed, the substrate is to be sealed with an epoxy moisture barrier, or similar. **VAPORiTe®+PLUS** epoxy moisture barrier system has been specifically developed for this purpose.

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 and filling the area with **PATCHiTe®** Rapid Set Patching Compound.

Any large holes or saw cut joins should be patched or filled by pouring mixed **PATCHiTe®** into them and trowelling the surface flush with the adjacent surfaces. Commence with the application once the **PATCHiTe®** is dry. Where expansion joints are encountered, it is important to honour these and establish the end client's finish specification to ensure compliance with technical slab movement requirements.

Assess the access area where the **LEVELiTe®** 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.



LEVELiTe[®]FX

RAPID-CURING SELF-LEVELLING SCREED

3.1.3 PRIMING

The screed 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[®]** seals the concrete pores and promotes the smooth flow of the levelling compound while preventing air bubbles rising through the applied **LEVELiTe[®]FX**.

To ensure that no bubbles arise, care must be taken that no uncoated spots are left. Please note that the primer must be allowed to dry properly before application of the levelling compound. This normally takes approximately 20 minutes.

At this point it is advisable to install the sealing strip to doorways and places where the compound is to end. Bond 10 x 10mm foam tape to surfaces where the compound is to end, eg. doorways, stairs etc. This will prevent the self-leveller from running into areas not to be levelled.

Non-absorbent substrates such as power-floated concrete, ceramic or porcelain tiles must first be primed with **iTe SLURRY[®]** in accordance with the **iTe SLURRY[®]** Technical Data sheet. **iTe SLURRY[®]** is rolled on with a mohair roller and allowed to dry.

3.1.4 MIXING

Use 5.0 liters of water per 21,5 kg 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[®]FX** and then discharge onto the affected floor.

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

3.1.5 APPLICATION

Pour the mixed **LEVELiTe[®]** onto the primed substrate, spreading it out with a long handled pin leveller with adjustable skegs, or a notched rake suitable for the required thickness, "pushing" the compound to fill initial area, and the "pulling" or "drawing" the compound until the entire surface is covered.

It is best to meld subsequent pours into already applied product and drawing the mixture away to obtain a constant thickness. The self-levelling properties of the **LEVELiTe[®]** will ensure an even, smooth distribution of the compound. Roll the wet compound with a spiked roller gently and slowly, but thoroughly, at right angles to the draw, before the setting process advances too much. This will remove any small air bubbles and retain effective mixing or any deviations left by the skeg leveller. The person rolling the compound should wear spiked boots to minimise disturbance of the applied compound.

3.1.6 GENERAL

In order to maintain a constant even drying process, windows should be closed and drafts avoided during the initial set. Once the initial set is evident, accessible doors and windows should be opened to minimise the build up of atmospheric moisture.

All supplied data is based on laboratory tests conducted at 20 C, and a relative humidity of 50% as required by international standards. Based on practical building site conditions, temperatures should be between 10°C and 30°C. When higher temperatures are experienced, the drying will accelerate and allowance for this needs to be made by the applicator. Actual conditions experienced may result in slightly different results. Experience has shown that to achieve the best results iro levelness, a depth of 4 to 5mm or more should be poured.

Specialist applications such as bulking out should be discussed with our technical staff.

Please do not hesitate to contact us for training or any queries you may have.



LEVELiTeFX

**RAPID-CURING
SELF-LEVELLING SCREED**

3.2 APPLYING LEVELITE OVER TILES

3.2.1 PRECAUTIONS

LEVELiTe® can be applied over existing ceramic or porcelain tiled floors. Certain precautions need to be taken before proceeding:

Check soundness and hollowness of tiles – remove and hollow sounding or loose tiles and apply **BONDiTe®** and then **PATCHiTe®** to fill void as per standard **PATCHiTe®** application methodology.

Check for moisture – moisture exceeding flooring covering specification must be dealt with by applying **VAPORiTe+PLUS®** moisture barrier as per **VAPORiTe+PLUS®** installation specification.

Check that the tiles are not coated with a sealer which could cause lack of proper adhesion. If so, the sealer must be stripped prior to proceeding.

Check that the tiles are not contaminated by oils or any materials which may hinder proper adhesion.

Should moisture not be an issue the **iTe SLURRY®** is applied as shown below.

3.2.2 INSTALLATION

STEP 01

Pour the **iTe SLURRY®** onto the tiles and apply evenly with a mohair roller.

STEP 02

Allow the slurry to dry and harden.

STEP 03

Apply **LEVELiTe®** Self levelling compound (F10, F30 or F50) onto floor as per standard **LEVELiTe®** application methodology.

The best results are obtained when grout lines are filled prior to the final overall application of **LEVELiTe**, which should be at 3mm or more if necessary.

Allow the floor to cure and install the floor covering 12 hours later, using the appropriate **GRIPiTe** adhesive.

NOTE: When priming with **BONDiTe** over old ceramic tile adhesive, please ensure that the old adhesive is properly sealed, even applying a second coat, due to the porosity of the adhesive and the tendency for air to escape during curing, causing pinholes in the dry **LEVELiTe**.



LEVELiTe[®]FX

RAPID-CURING SELF-LEVELLING SCREED

3.3 BULKING UP LEVELITE

Bulking out of **LEVELiTe** is undertaken where the regular application of a self-levelling compound to the thickness exceeding say 15mm is prohibitive from a cost perspective, and where the installation of a regular sand/cement screed will result in serious time delays due to the slow drying process of the screed. The bulking up process is a two-step process, which enables the installation of vinyl flooring within 24 hours at a reduced cost.

3.3.1 PREPARATION

Prior to applying the bulked-up system, it is important to determine that the substrate onto which it is to be applied is sound. (Cracks are often an indication of delamination between the slab and screed. Tap the screed at regular intervals and listen for hollow sounds or changes in pitch.) This identifies potential hollow spots. The substrate should not be friable or powdery. If the substrate is sound, but slightly (not excessively dusty), this can be improved by applying a slurry to the surface and allowed to dry before commencing with priming. Should the screed not be sound, remove all friable or loose materials until a sound base is obtained.

Determine Screed Moisture Levels – Measure the screed moisture levels using appropriate, reliable test equipment to check that the moisture levels are below the tolerances of the floor covering to be installed. (SANS 10070 code of practice stipulates that if the screed moisture exceeds 3% moisture content (70% RH), then a moisture primer (barrier) should be applied).

*If the screed moisture is higher than permitted, apply **VAPORiTe +PLUS** water-based epoxy moisture barrier in accordance with the Data Sheet for **VAPORiTe +PLUS**, followed by the application of **iTe SLURRY** as per our specifications.*

*The Bulking-up process entails applying a bulked material layer to build the level up to a point where a second, conventional layer of **LEVELiTe** is added to achieve the final thickness allowing for the thickness of the floor covering to be installed.*

Depending on the size of the area to be bulked-up, two methods can be used to set out the depth of the bulking to be done.

3.3.2 LARGE AREAS:

*At regular intervals drill holes to hold rebar vertically. The intervals can be say at 1m squares, until the entire surface to be bulked up is marked out. Use a fast setting epoxy adhesive to hold the bars in place vertically. Using a laser level, mark the rebar rods at the desired height below the final level to be achieved. (Final floor level minus floor covering thickness minus say 3mm self-levelled **LEVELiTe** application). Cut the rebar off at these marked heights.*

3.3.3 SMALLER AREAS:

Set up the laser level in the recess, determine the level to be achieved with bulking up, or the level below the final floor surface as above, and apply a chalk line to the side walls of the recess.

3.3.4 APPLICATION

*Ensure that the surface of the recess is dry. (If Moisture Barrier has been applied, ensure that it has set) Prime the surface with **BONDiTe** until the screed surface and walls are covered properly. Allow to dry. Fill the recess with 6 to 8mm washed stone, creating a level surface to the level of the rods, or wall markings.*



LEVELiTe[®]FX

RAPID-CURING SELF-LEVELLING SCREED

Mix **LEVELiTe** as per the data sheet, and pour the mixed compound into the stone. Use a garden rake spade or trowel to mix the compound with the aggregate (stone) ensuring that the aggregate is properly coated and settles on the substrate.

Maintain the desired level, compacting with a straight edge, so that any aggregate does not protrude excessively.

Repeat this process until the entire recess is filled.

Due to the high volume of **LEVELiTe** in this application, it will tend to set faster than normal. It is important to work fast, and maintain a constant flow of product to be integrated with the aggregate.

Allow the bulked –up mix to cure for at least 2 hours, and ensure that it is sound enough to be walked on.

Apply **BONDiTe** primer liberally to the bulked-up surface and allow it to dry. (During drying, it will change colour from white to clear, when it is finally dry).

Mix and apply the self-levelling layer of **LEVELiTe** as per normal (see technical data sheets) to the height ready for installation of floor covering, and allow it to cure till the next day, ready for installation of the flooring.

Materials Calculation:

Stone 6 – 8mm washed stone:

+/- 15,5Kg per m² per 10mm thickness

LEVELiTe For Bulking

F30 = 1,5Kg per m² per 1mm thickness x 0,6

Thereafter the final topping of **LEVELiTe** at the rate of 1,5 Kg per m² per 1mm thickness



LEVEL[®]iTeFX

**RAPID-CURING
SELF-LEVELLING SCREED**

4. THEORETICAL(VOC)CONTENT

4.1 PRODUCT:

LEVELiTe® FX Self Levelling Floor Screed Compound

4.2 ABBREVIATIONS

S.G. = Specific Gravity

g/ml = grams/millilitre

g/l = grams/litre

4.3 FORMULAS

Sum of VOC's in Sealer/Primer 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

LEVELiTe[®]FX
RAPID-CURING
SELF-LEVELLING SCREED

5. SHORT REPORT VOC

1 July 2025

Short Report: Product LEVELiTe FX Self Levelling Floor Screed

iTe Products **LEVELiTe[®]FX** 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[®]FX 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
Product Development Manager

6. VOC CONFIRMATION NOTICE

1 July 2025

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, F100** and **FX** 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, F50 or FX** 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,



Peter Funke
Product Development Manager

LEVELiTe[®]FX
RAPID-CURING
SELF-LEVELLING SCREED

7. WARRANTY

iTe Products warrants that **LEVELiTe[®]FX** 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[®]FX 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[®]FX 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[®]FX** 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[®]FX 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.

LEVELiTe[®]FX
RAPID-CURING
SELF-LEVELLING SCREED

8. SUGGESTED SPECIFICATION

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