

Kilsaran

KPRO
FLOOR



Contractor

Product and Installation Guide

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1. Products



A rapid hardening and fibre reinforced cementitious levelling compound for use in domestic and commercial applications, over a multitude of substrates. Laying depth 2mm-50mm. CT-C30-F7.

1.2 LevelEase 225



A standard-setting and fibre-reinforced cementitious levelling compound for use in domestic and commercial applications. Laying depth 2mm-25mm. CT-C25-F6.

1.3 LevelEase Duo 225



A standard-setting two component cementitious/latex levelling compound for use in domestic and commercial applications. Laying depth 2mm-25mm. CT-C25-F6.

1.4 LevelEase Primer



A high-performance, deep-penetrating primer designed to strengthen absorbent substrates and improve adhesion for subsequent layers. It ensures reduced absorbency and enhanced workability for a wide range of surface preparation tasks.

1.5 LevelEase Gritty Primer



A quartz infused, high-performance and fast-setting bonding primer which delivers a textured, gritty finish that significantly enhances the adhesion of subsequent layers, to smooth non-absorbent substrates.

1.6 LevelEase DPM



A one-component, water-based residual moisture vapor suppressant, designed to suppress residual construction moisture in cementitious substrates, where the moisture content is up to 95% RH.

2. Floor Preparation

2.1 Evaluating Existing Floor

Prior to installation of KPRO Floor LevelEase products the condition of the existing floor/substrate needs to be assessed. Even if the subfloor has been in place for year, there is no guarantee that it is fit for purpose and able to support levelling products. Cracks and damage should be investigated and repaired prior to the installation of any products. If laying KPRO Floor LevelEase 250 over plywood subfloors, it is essential the subfloor consists of at least two layers of exterior-grade plywood, with a combined minimum thickness of 32mm. The OSB/plywood should be securely fastened to create structurally sound, contaminant-free rigid substrate.

The moisture content of the subfloor at the time of installing levelling products is of critical importance. BS 8203 requires a substrate to have a relative humidity of $\leq 75\%$ or a residual moisture level of $\leq 4\%$ CM (ca. 6% MC on TrameX).

Lastly whether installing LevelEase products of new or existing subfloors, care should be taken to ensure no surface contaminants are present which may affect adhesion of levelling of materials.



2.2 Preparation and Priming

All floors will require some form of preparation before applying a KPRO LevelEase material. All substrates should be vacuumed clean to remove dirt and dust. Oil and grease residues should be removed completely. All substrate should be primed with KPRO Floor LevelEase Sealing Primer. For tiled and non-absorbent substrates LevelEase Gritty Primer should be used.

For substrates that have a relative humidity greater than 75% LevelEase DPM should be applied and allowed to dry fully prior installation of LevelEase levelling compounds.

When installing LevelEase levelling compounds onto heated screeds, ensure the underfloor heating system has been fully commissioned and that the heating has been turned off for a minimum of 2 days prior to installing the LevelEase levelling compounds.



2.3 Selection of Product

				
		LevelEase 250	LevelEase 225	LevelEase Duo
Laying Depth		2mm – 50mm	2mm – 25mm	2mm – 25mm
Suitability of substrates	Concrete	● ● ●	● ●	● ●
	Plywood*	● ● ●	○	○
	S&C Screed	● ● ●	● ●	● ●
	Calcium Sulphate Screed	● ● ●	● ●	● ●
	Ceramic Tiles	● ● ●	● ●	● ●
Substrate preparation	LevelEase Sealing Primer	Required	Required	Required
	LevelEase Gritty Primer	Required on tiled substrates	Required on tiled substrates	Required on tiled substrates
	LevelEase DPM	If substrate moisture is $\geq 75\%$ RH, $\leq 95\%$ RH	If substrate moisture is $\geq 75\%$ RH, $\leq 95\%$ RH	If substrate moisture is $\geq 75\%$ RH, $\leq 95\%$ RH
Open to foot traffic		2 hours	4 hours	4 hours
Installation of floor coverings	Tiles	6 hours	12 hours	12 hours
	Resilient Coverings	24 hours	24 hours	24 hours



3. Installation

3.1 Equipment and Tools

As like most projects, there are right tools for the job, that make installation easier, safer, and ensures a quality finish every time.



Critical to remove all loose dust and debris from the substrate prior to installation.

Vacuum Cleaner



Critical for application of pre-treatments such as primers or DPM's.

Brush/Paint Roller



All LevelEase levelling materials should be mixed by mechanical means using a suitable drill and mixing paddle.

Mixing Whisk and Drill



Gauging the correct water addition for all LevelEase materials is of critical importance. Mixing water should be added as per product instructions.

Mixing Bucket and Measuring Vessel



For walking across fresh levelling materials during installation.

Spiked Shoes



Smoothing trowels for spreading and trowelling out levelling materials.

Trowels)



For use after applying smoothing compounds to remove trapped air and ensure a smooth finish.

Spiked Roller



Appropriate PPE such as eye, hand, noise and dust protection.

PPE

3.1 Mixing and Installation

As with all materials, the mixing process is extremely important and should be followed.

3.1.1 Mixing LevelEase 250

The 20kg bag of material should be mixed with 4.00 – 4.3 litres clean potable water. Excess of water may cause a loss of strengths. Add the dry powder to the water and mix mechanically with a suitable paddle mixer until a lump free homogenous mix is achieved. Allow the fresh material to sit for 1 minute and then thoroughly stir/reagitate. In larger areas the use of a suitable screed pump is advised. For applications involving large areas, it is essential to plan for sufficient workforce to ensure the material is poured and spread within the appropriate working time. At application thicknesses greater than 20mm the introduction of Kilsaran 3-5mm aggregate grit is recommended. At the mixing stage, add 1 part Kilsaran 3/5mm grit to 4 parts KPRO Floor LevelEase 250 i.e. 5kg of Kilsaran 3/5mm grit to 20kg of LevelEase 250, and ensure complete mixing.

3.1.2 Mixing LevelEase 225

The 20kg bag of material should be mixed with 4.00 – 4.3 litres clean potable water. Excess of water may cause a loss of strengths. Add the dry powder to the water and mix mechanically with a suitable paddle mixer until a lump free homogenous mix is achieved. Allow the fresh material to sit for 1 minute and then thoroughly stir/reagitate. In larger areas the use of a suitable screed pump is advised. For applications involving large areas, it is essential to plan for sufficient workforce to ensure the material is poured and spread within the appropriate working time.

3.1.3 Mixing LevelEase Duo 225

To prepare KPRO Floor LevelEase Duo 225, mix one 20kg bag of the dry material with Component B, which is a 4.6kg bottle of dispersed acrylic. It is important not to add any additional water to the mix, as this may compromise the product's strength and overall performance. Begin by pouring the entire contents of the bottle into a clean mixing bucket. Gradually add the dry powder to the liquid while continuously mixing with a mechanical paddle mixer. Mix thoroughly until the mixture reaches a smooth, lump free, and homogenous consistency. Once mixing is complete, allow the material to rest for approximately one minute to release any trapped air bubbles. For applications involving large areas, it is essential to plan for sufficient workforce to ensure the material is poured and spread within the appropriate working time. If a layer thickness exceeding 25mm is required, KPRO Floor LevelEase 250 should be used instead.

3.1.4 Mixing LevelEase Sealing Primer

Shake the product container well before use. Apply the primer evenly with a brush or roller. For very absorbent or loose substrates, dilute with clean water in a 1:1 ratio for the first coat. Apply additional coats undiluted if needed. For painting or flooring applications, ensure the primer dries completely before proceeding.

3.1.5 Mixing LevelEase Gritty Primer

Before application, ensure that the product is thoroughly stirred to achieve a uniform consistency. The primer should be applied in its **undiluted** form to ensure maximum adhesion.

3.1.6 Mixing LevelEase DPM

Before application, ensure that the product is thoroughly stirred to achieve a uniform consistency. The product should be applied in its **undiluted** form in a minimum of two separate coats (allowing first coat to dry fully) applied at 90° to one another to ensure correct performance.

3.2. Installation/Placing

Installation of LevelEase products should be carried out by trained professionals and in accordance with manufacturers instructions.

3.2.1 Installation/Placing of LevelEase 250/225

Pour the mixed KPRO Floor LevelEase 250 onto the prepared substrate, allowing it to flow and self-level within the first 15 minutes of its 20-30 minute working time. Use a steel trowel or squeegee to spread the compound evenly to the desired thickness. Use a spiked roller to release trapped air bubbles and achieve a smooth finish. During the 20-30 minute working time, a steel finishing float can be employed for precise feathering and edge refinement. Protect the freshly applied surface from drafts until it hardens.



3.2.2 Installation/Placing of LevelEase Duo 225

Pour the mixed KPRO Floor LevelEase Duo 225 onto the prepared substrate and let it flow and self-level within the first 15 minutes of its 20-30-minute working time. Use a steel trowel or squeegee to spread the compound evenly to the desired thickness. Since the maximum aggregate size is 0.5 mm, it is suitable for feather applications, with a minimum thickness of 2mm. To achieve a smooth finish, use a spiked roller to release trapped air bubbles. During the working time, a steel finishing float can be used for precise feathering and refining edges. Protect the freshly applied surface from draughts until it hardens.



3.3 Protection of Work, Trafficking and Floor Finishes

Once installed, LevelEase levelling compounds should be protected from accelerated drying by means of draughts, strong sunlight or heat (in heated screeds). The products can be open to foot traffic in as little as 2-4 hours, depending on product and local conditions (see table on page 3). It is important to protect the new surface from heavy traffic, contamination or damage from trades if there is likely to be a long delay between installation of the levelling materials and subsequent floor finishes.

In normal conditions, ceramic tiles and non-moisture sensitive floor coverings can be installed in as little as 6-12 hours for depths up to 10mm, depending on product and local conditions (see table on page 3). Resilient and moisture sensitive floor coverings can be installed after 24 hours for depths up to 25mm. For resilient and moisture sensitive floor coverings applied to LevelEase levelling materials installed at depths greater than 25mm (LevelEase 250) allow 48 hours prior to covering.





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