weber
SAINT-GOBAIN

Contents

About Weber

As a recognised manufacturer and innovator of easy-to-apply products in the flooring systems, tile-fixing, technical mortars and façades markets, Weber is a leading player in the construction products industry. The natural synergy between these specialist activities enables Weber to provide integrated solutions for a wide range of projects from building renovation and refurbishment to new building developments and major civil engineering.

Weber does not sell only products but the complete solution, which includes the services that go with the products; technical support and training. Based on its strong knowledge and experience of the market, the Weber training programmes meet the needs of its customers. Weber provides specifiers, developers and contractors across the board with substantial technical support, both before, during and after contract periods.

About Saint-Gobain

Weber is part of Saint-Gobain, one of the world's leading industrial groups with activities in construction products, flat glass and packaging, high performance materials and building distribution. Saint-Gobain is an international group employing 170,000 people in more than 67 countries worldwide. Established in France in 1665, Saint-Gobain is one of the world's largest industrial groups, with an annual turnover of €39.1 billion.

Some of the UK and Ireland's most respected companies and brands in the construction sector are part of Saint-Gobain, including British Gypsum, Glassolutions, Isover, PAM, Artex, Celotex, Ecophon and Pasquill. Together, these businesses offer an unrivalled range of products and innovative material solutions that give architects and designers the ability to respond to the latest trends, whilst meeting the most exacting performance and legislative standards.

Why use Weber flooring screeds?

- **Innovative**
- **Fast**
- **Durable**
- **Easy to apply**
- **Proven**
- **Reliable**

In the current fast moving and dynamic environment, time is money. Floors need to be laid quickly and be available to other trades in the shortest time possible. Weber's comprehensive flooring products range, consisting of Industrial and Commercial screeds have been developed for optimum speed, durability, strength, smoothness and are the most technically advanced products on the market.

All of our screeds are UK manufactured under the BSI Quality Assurance Schemes ISO 9001 and ISO 14001.

Professional applicators are invited to contact Weber for technical support and back up to ensure correct product specification and performance with on-site inspection, supervision and nationwide training.

Rapid drying products

- Saves valuable time and money
- Speed of application allows faster access for following trades

Superior product performance

- Easy-to-use and most technologically advanced levelling compounds and screeds
- Combines consistent and reliable drying characteristics with optimum strength and durability

UK manufactured products

- Ensures availability with quick and efficient lead times

Introduction into flowing floor screeds CPD

Designed especially for architects, main contractors, applicators and interior designers, the RIBA and Construction CPD certified 'Introduction into Flowing Floor Screeds' CPD covers industrial, commercial and retail floor applications whilst taking into consideration consistency, strength, speed of application and drying time. The comprehensive CPD identifies the characteristics and performance range of the screeds and how their individual properties can easily be identified to meet the required criteria of specific areas.

Thick screeds, such as anhydrites or hemihydrates, and thin levelling screeds suitable for new build and refurbishment are presented in detail together with a technical section on how Weber's flooring screeds meet the latest Part L and Part E requirements of current Building Regulations. Consideration to health, safety and sustainability in the reduction of waste, harmful emissions, and recycling are also covered in detail. The 30 minute Flooring CPD is presented by Weber's specification team either on site or at the client's offices for individuals and small groups. The service is free and available on request.

To book this CPD presentation, please contact Weber on **08703 330070** or email **mail@netweber.co.uk**

CPD CERTIFIED Construction CPD Certification

Commercial screeds

Developed for optimum speed, Weber's high-performance products give a smooth surface that is ready for foot traffic after only a few hours and that can be covered with a soft floor covering in 24 hours.

The range consists of products for use as floating, un-bonded and bonded screeds including insulated, acoustic or heated floors.

weberfloor 4150 fine flow

A high-performance, pumpable, levelling floor screed for solid floors in commercial and residential building applications.

- For application depths between 2-30mm
- Can receive foot traffic after only 2-4 hours
- Excellent spreading and smoothing characteristics
- Can be hand-applied in small areas

Cement-based

MANUFACTURED IN THE UK · APPLICATION DEPTH · FOOT TRAFFIC · COVERING TIME

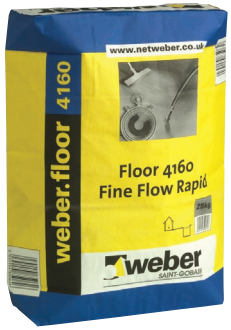
Supplied in 25kg bags

Casein-free, low alkalinity, low emissions.

weberfloor 4160 fine flow rapid

A high-performance, rapid-setting, pumpable, self-levelling floor screed for solid floors in commercial and residential building applications.

- For application depths between 2-30mm
- Can receive foot traffic after only 1-3 hours
- Final floor covering can be installed after 24 hours
- Stable in humid conditions
- Can be hand-applied in small areas



Cement-based

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Casein-free, low alkalinity, low emissions.

weberfloor 4320 fibre flow rapid

A high-performance, fast-setting, rapid drying, fibre-modified, pumpable, self-levelling floor screed for solid and floating floors in commercial and residential building applications.

- For application depths between 5-50mm
- Can receive foot traffic after only 1-3 hours
- Fibre-modified for added durability
- Can be hand-applied in small areas

Cement-based

Supplied in 25kg bags

Casein-free, low alkalinity, low emissions.

weberfloor 4310 fibre flow

A high-performance, fibre-modified, pumpable, levelling floor screed for solid and floating floors in commercial and residential building applications.

- For application depths between 5-50mm
- Can receive foot traffic after only 2-4 hours
- Fibre-modified for added durability
- Excellent spreading and smoothing characteristics
- Can be hand-applied in small areas

Cement-based

Supplied in 25kg bags

Casein-free, low alkalinity, low emissions.

weberfloor 4360 base flow rapid

A high-performance, fast-setting, rapid drying, pumpable, base screed for solid and floating floors in commercial, residential and industrial building applications.

- For application depths between 20-80mm
- Can receive foot traffic after only 2-3 hours
- Fibre-modified for added durability
- Can be hand-applied in small areas

Cement-based

Supplied in 25kg bags

Casein-free, low alkalinity, low emissions.

Industrial screeds

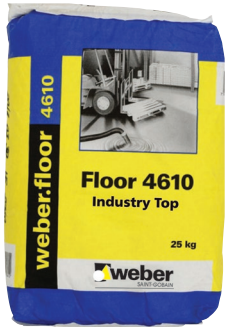
In the Industrial environment, speed, strength and durability are the keys for a successful floor installation. Weber's high-performance Industrial screed range offers exactly this, creating stronger, smoother, longer lasting floors with minimal down-time.

The speed of application is up to ten times faster than traditional screeds and the fast drying/curing properties allow forklift traffic or resin finishes to be applied within 24 hours.

weberfloor 4610 industry top

A pumpable, rapid hardening, self-levelling screed intended for use as a surface layer on industrial flooring applications.

- For application depths between 4-15mm
- Can receive foot traffic after only 2-4 hours
- For levelling and smoothing of floors subject to heavy traffic and abrasion, such as factories, production areas and warehouses
- Very high durability towards mechanical stress – long lifetime



Cement-based

Supplied in 25kg bags

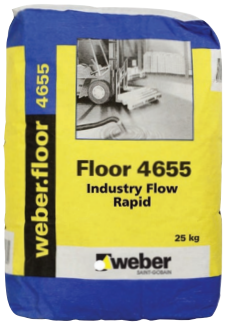
Casein-free, low alkalinity, low emissions.

weberfloor 4655 industry flow rapid

A pumpable, fast drying, self-smoothing, industrial floor screed and resin base for use as a surface layer on industrial flooring applications.

- For application depths between 4-15mm
- Can receive foot traffic after only 1-2 hours
- Used to level and smooth a wide range of substrates in industrial applications on both new and old concrete for new and refurbishment projects
- Final floor covering can be installed after 24 hours*

* For a 10mm layer in good drying conditions



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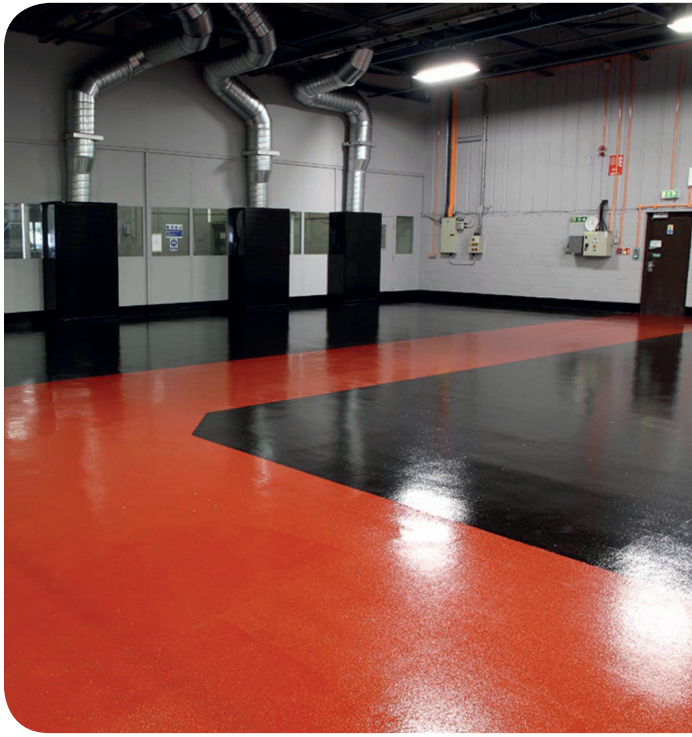


Ancillary products

weberfloor 4716 primer

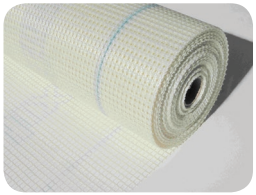
weberfloor 4716 primer is designed for priming (pre-treating) all substrates prior to application of weberfloor products. weberfloor 4716 primer should be diluted with clean water.

- Regulates the porosity of the substrate
- Improves the adhesion of flooring products
- Reduces the formation of pinholes in the levelling layer
- Can be spray-applied for use on large areas

Essentially non-hazardous.
Supplied in 25 and 5 litre plastic bottles.

weberfloor 4945 glass fibre mesh

Glass fibre reinforcement net for weberfloor products. The net has an alkaline-resistant impregnation. The net is normally used on weak substrates or in case the screed is laid non-bonded.



Supplied in 100m rolls,
1200mm wide.

weberfloor DPM

weberfloor DPM is a highly moisture tolerant, epoxy resin damp proof system, especially designed to bond to concrete surfaces even when the concrete is still drying out and containing a high degree of moisture.

- Two-coat system
- Easy to apply
- Reduces project timescale, allows early installation of floor finishes
- Can be used down to 5°C, allowing work to continue during winter
- Resistant to a wide range of chemicals

Contains epoxy constituents.
Supplied in 5.6kg packs.

Best practice guide

Commercial floor

Substrate preparation

Depending on substrate:

- Removal of old flooring materials
- Improvement of defective substrates where applicable
- Cleaning (blasting, grinding, suction cleaning)
- Application of necessary joints in the case of merged structures
- Application of height marks

The substrate must be cleaned with a broom, vacuum cleaned and subsequently primed with **weberfloor 4716 primer** (mixing ratio: 1:3 primer/water).

Filling local cavities

- Level out defective areas, such as holes and imperfections up to a depth of 50mm
- After approximately three hours, subsequent work may continue

Reinforcement

If required, apply **weberfloor 4945 glass fibre mesh** to the existing substrate.

weberfloor 4945 glass fibre mesh is placed on top of the substrate or on top of the floating layer, for example, PE-foil, geotextile, sound insulation etc, with an overlap of at least 50mm. If used on a geotextile, **weberfloor 4945 glass fibre mesh** should be laid in the same direction as the geotextile in order to minimise the risk of the floor compound leaking through. When **weberfloor 4945 glass fibre mesh** is applied on sound insulation, it is recommended that both ends of the mesh be fastened to the insulation/substrate with hot-melt adhesive.

Industrial floor

Substrate preparation

Depending on substrate:

- Removal of old flooring materials
- Improvement of defective substrates where applicable
- Substrate preparation (milling, shot blasting, grinding, vacuum cleaning)
- Adoption of existing joints:- Limitation of liability if joints are covered and have not been carried over in the upper layer, as there is the danger of cracking during use
- Application of height marks

Priming

Apply two coats of **weberfloor 4716 primer** dispersion diluted 1:3 and 1:3 (concentrated primer; clean water) on to the substrate (concrete or cement screed).

NOTE: Some substrates might require more priming due to their porosity. If so prime first time with 1:5, for example. The primer must be brushed on to the cleaned substrate avoiding ponding.

Reinforcement (if required)

NOTE: If doubts exist regarding substrate strength, for example, substrate pull-off strength < 1.5 N/mm² (MPa), **ALWAYS** reinforce the base material using a **bolted down steel reinforcement mesh**.

A steel reinforcement mesh Ø 4mm, mesh 150mm should be bolted down on the substrate using a nail gun tool.

1. Place a steel reinforcement mesh Ø 4mm, mesh 150mm on the substrate. Place a second mesh directly over the first mesh ensuring the steel rods are aligned to avoid overlapping. If necessary, trim off steel rods at the ends.
2. Bolt each mesh down with 4-6 bolts. Use a perforated strip, approximately 5-10cm, to attach each steel reinforcement mesh to the next at the adjoining corner. Ensure each mesh is properly bolted down. The mesh should not rise up when walked on or during application of the self-levelling material. Wrap the perforated strip around the steel rods and bolt down. If not using a perforated strip, always attach the bolt together with a washer in order to keep the mesh bolted down.

Base layer (if required)

If the substrate is very rough and uneven, it requires a base layer. Use **weberfloor 4360 base flow rapid** pumped on to the substrate to the required thickness in sections 6-8m wide. When filling the sections be sure to advance in strips, adding each new strip to the old as quickly as possible, so the material can merge. Afterwards, level out the surface while it is still fresh, using a notched trowel. Follow the product data sheet.

NOTE: Always pump the products with a continuous mixer pump. The volume of added water must be specified on the continuous mixer. Check the correct volume of water to be added before and after application (see Product Data Sheet).

Priming of base layer

1. Apply two coats of **weberfloor 4716 primer** dispersion diluted 1:3 (concentrated primer; clean water) to **weberfloor 4360 base flow rapid**.
2. Apply the first primer coat as soon as the base layer can be walked on and the second coat as soon as the first coat is absorbed.
3. The aim of applying the primer is to achieve a thin but tight membrane.
4. Use a brush to apply the primer and also to remove any excess primer material from the surface.
5. When the primer has formed a film on the surface, commonly after 2-4 hours, the top layer **weberfloor 4655 industry flow rapid** or **weberfloor 4610 industry top** can be applied.

Top layer

weberfloor 4610 industry top is pumped on to the substrate to the required thickness, normally 8-10mm, in sections of approximately 6-15m wide. When filling the sections, advance in strips so that each new strip is added to the next as quickly as possible to enable the compound to merge. Afterwards, level out the surface while it is still fresh, using a notched trowel.

Pump **weberfloor 4655 industry flow rapid** on to the base to the required thickness in sections of approximately 6-15m wide. When filling the sections, advance in strips so that each new strip is added to the next as quickly as possible to enable the compound to merge. Next, level out the surface while it is still fresh using a notched trowel. Interruptions to the work process must be avoided. Do not mix different batches for areas that are connected.

NOTE: Always pump the products with a continuous mixer pump. The volume of added water must be specified on the continuous mixer. The accuracy of volume of water added must be checked before and after the mixing process (see Product Data Sheet).

Additional recommendations

To ensure a straight joint between the sections, we recommend first pumping the material (**weberfloor 4610 industry top**) into every second section (for example first, second...). Then removing the foam barriers and masking the two edges of the middle section with masking tape (minimum width 50mm) 6 hours after pumping at the earliest. Immediately after, pump the material into the remaining sections. Remove the masking tape after approximately 30 minutes.

Further recommendations

- Air dehumidifiers, draughts and too high temperatures must be avoided
- **weberfloor 4360 base flow rapid, weberfloor 4610 industry top** and **weberfloor 4655 industry flow rapid** are cement-based materials that may be used immediately. As a result, the shade of the hardened flooring surface may vary with use of different raw materials. Slight variations in colour may occur during the laying process due to, for example, fluctuations in the volumes of water added or surface processing
- When impacted by dirt or liquid agents, the surface reacts like a dense concrete surface
- Movement and expansion joints must be carried through from the substrate
- In the case of industrial use, dummy joints may develop into spontaneous joints. When overlaying the dummy joints, cracks may occur
- Cracks may occur due to the consistency of the substrate and if layer thicknesses are exceeded
- Small hairline cracks may occur due to the building shape or the substrate. These are purely optical flaws and have no influence on the floor's adhesion or loading capacity
- Early point loads during the first week may leave small indentures since the material is still in the process of curing
- Rapid reconstruction of stores with cement-bonded floor coatings as final flooring material – for internal use
- Total reconstruction time: Minimum 48 hours

dB floor

Preparation

Substrate preparation – depending on substrate:

- Improvement of defective substrates where applicable
- Removal of loose material and basic cleaning of the substrate
- Rough levelling and improvement of defective substrates where applicable

Clean substrate with a broom; all dust and debris should be vacuumed from the surface.

Sound insulation boards

There are many different impact sound insulation boards on the market with many different properties. The main property to look for is dynamic stiffness. The lower the dynamic stiffness, the better the sound-reducing effect.

However, too soft or thick insulation boards might indeed have a very low dynamic stiffness but are too soft to support the floor or provide the required point load capacity.

The impact soundboards are laid on the levelled floor and cut to adjust to special room geometries.

Dividing layer and soft strips

Soft strips should be installed on all rising building structures and penetrating pipework. To form a tight mould for pumping, apply a dividing layer, for example Geotextile, plastic membrane or waxed paper on top of the sound insulation material.

Surface slabs

Should a cement-based material be used, **weberfloor 4945 glass fibre mesh** must be laid out on the surface. When laying out the mesh, ensure that the edges overlap by 50mm. If a calcium sulphate screed is used, no reinforcement mesh is needed.

As a load and heat distribution layer, five different self-levelling screeds can be used within the dB-Floor Concept:

weberfloor 4310 fibre flow (normal drying) or **weberfloor 4320 fibre flow rapid** (self-drying) fibre-reinforced, flexible cementitious screeds with a high polymer content. Recommended if PVC or linoleum is to be used and when you want to avoid a separate manual smoothing application (light grinding is still recommended due to the high fibre content). The minimum thickness is 25mm but it can be pumped up to 50mm.

Further recommendations

The floor covering may be applied once the drying conditions are suitable. The indications referring to the readiness for covering apply to a dry substrate, a room air temperature of 20°C and a relative humidity of 50%. Air dehumidifiers, draughts and too high temperatures must be avoided.

Normal apartments can usually be done without any joints. In the case of unfavourable geometry (narrow long corridors or big areas where the uniform slab is "cut" by partitions), we recommend creating a "dummy joint" by cutting the slab approximately 5mm deep at such critical places. If the slab is to crack, it will crack in a controlled manner at these places but it will still be held together by **weberfloor 4945 glass fibre mesh**. If the floor covering requires a seamless and crack-free floor, these dummy joints can be injected as soon as the shrinkage stresses have ceased, i.e. when the screed material has dried out completely!

Dilatation joints in the building do not necessarily have to be adopted as this surface slab floats complete freely, independently of the building's dilatation joints. On the contrary, we can offer a seamless floating screed floors that also enable the tiling of large areas without joints and cracks.

Please note that small hair cracks may occur due to the building shape or the substrate. These are purely optical flaws and have no influence on the floor's adhesion or loading capacity.

Under-floor heating

Preparation

Substrate preparation – depending on substrate:

- Cleaning
- Rough levelling of the substrate for installing the system plates or optional additional installation layer EPS-plates

The surface in general has to be dry and free from surface contamination and other impurities. All dust and debris should be vacuumed from the surface. Smaller holes and floor irregularities, such as prefabricated elements and height differences, can be smoothed out with bagged sand to ensure the stable application of the heating plates.

Optional installation layer

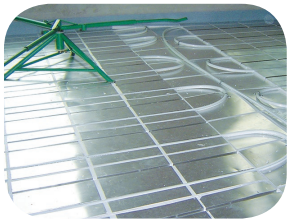
This optional layer can be used for sewers, water pipes, electrical installations or any other requirement for an intermediate layer.

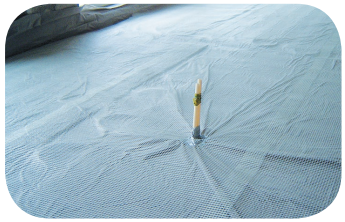
Small insulation needs are conveniently dealt with using a 30-50mm layer of EPS boards into which 'omega shaped' grooves are cut with a heat cutter.

Where there are several pipes, it is more convenient to make a complete duct and to tie down the group of pipes. The gap is filled with thick flowing mortar or screed to form a uniform support for the system plates.

Pipes can also be drilled down through intermediate slabs and be led in the suspended ceiling below or through self-bearing base floors.

Heating pipes





Heating pipes made of PEX or composite materials are common. To achieve a high efficiency at the windows, start the heat circuits at the perimeter walls. The areas close to the central heating and at pipe joints should be fixed to corner plates.

The ingoing water is usually 23-30°C and the returning water cools down approx 1-4°C. The heating designer calculates these temperatures and the ingoing water temperature is usually adjusted with an outdoor thermostat, whereas the circulation per room is regulated by room thermostats.

The length of the pipe circuits, the pump's pressure, the room area and the used floor covering material also affect these temperatures. Therefore, the heating design is carried out by professional heating designers.

Dividing layer

Geotextile separates the fresh screed from the heating system below and stops the screed flowing in between the insulation boards. Geotextile is carefully selected for its resistance to leaks and its workability guaranteeing a rapid and secure final result. The Geotextile is rolled out on to the plates. Connecting parts are taped and the dividing layer is applied to all vertical construction elements. This ensures that materials added subsequently cannot run behind them.

Surface slab

Before the surface slabs are installed, **weberfloor 4945 glass fibre mesh** must be laid out in preparation for a cement-based screed. When laying out the mesh, ensure that the edges overlap by 50mm. If a calcium sulphate screed is used, no reinforcement mesh is needed.

As a load and heat distribution layer, three different self levelling screeds can be used within the Comfort Floor Concept:

weberfloor 4310 fibre flow or **weberfloor 4320 fibre flow rapid** – A fibre reinforced, flexible cementitious screed with high polymer content. Recommended if PVC or linoleum is used and when separate hand smoothing needs to be avoided (light grinding is still recommended due to the high fibre content). The minimum thickness is 25mm and the maximum thickness is 50mm.

All materials are pumped directly on to the Geotextile in the recommended thickness and are levelled by wobbling the fresh screed.

NOTE: Pure Portland cement-based screeds or concrete are not suitable for the Weber Comfort Floor, due to the aluminium reacting (vaporising) with the high pH of the humid concrete!

Further recommendations

The floor covering may be applied once the drying conditions are suitable. The indications referring to the readiness for covering apply to a dry substrate, a room air temperature of 20°C and a relative humidity of 50%. Air dehumidifiers, draughts and too high temperatures must be avoided.

Normal apartments can usually be done without any joints. In the case of unfavourable geometry (narrow long corridors or big areas where the uniform slab is "cut" by partitions), we recommend creating a "dummy joint" by cutting the slab approximately 5mm deep at such critical places. If the slab is to crack, it will crack in a controlled manner at these places but it will still be held together by **weberfloor 4945 glass fibre mesh**. If the floor covering requires a joint, and a crack-free floor is required, these dummy joints can be injected as soon as the shrinkage stresses have ceased, i.e. when the screed material has dried out completely!

As the heating pipes are completely below the screed slab, the risk of damaging these when cutting the dummy joints is very small. Also, the heat pipes will not suffer from the screed slab having any joints as they are not embedded in the screed.

Expansion joints do not have to be used as the surface slab floats completely freely, independently of the building. On the contrary, we can offer seamless floating screed floors which also enable the tiling of large areas without joints and cracks.

Please note that small hair cracks may occur due to the building shape or the substrate. These are purely optical flaws and have no influence on the floor's adhesion or loading capacity.

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Case studies

Client: Woolley GMC Engineering, Coventry

Products: weberfloor 4716 primer & **weberfloor 4655 industry flow rapid**

Contractor/Applicator: Zenith Polar Flooring Services

Weber's industrial and commercial flooring products, designed for speed of application and premium performance, were used in a major renovation project at Woolley GMC Engineering in Coventry. This British engineering company's trading success required a rapid factory facility renovation. **weberfloor 4655 industry flow rapid** industrial screed was specified and was responsible for the ultra-fast recovery of the flooring and the creation of a hardwearing safety roadway for fork lift truck operations.

Paul Sant of Zenith Polar Flooring Services was quickly able to determine that use of **weberfloor** products would deliver the required result. "Clearing damaged surfaces takes hard work and time but thorough preparation is essential for a successful finish. A coat of **weberfloor 4716 primer** was used to seal the base before we applied the **weberfloor 4655 industry flow rapid** screed for the safety roadway. This is a rapid drying screed and resin base that can take foot traffic in one to two hours and the final epoxy sealer within 24 hours," reported Paul.

weberfloor 4716 primer is a styrene acrylate dispersion primer for preparing most building substrates and is used prior to applying the **weberfloor 4655 industry flow rapid** screed. The Woolley Engineering facility was quickly operational, with new multi-station machining lines rapidly installed, and the 100m² of safety roadways also quickly in operation.

Project: Heathrow Airport Terminal 5 Tunnels

Client: BAA Ltd

Product: weberfloor 4610 industry top

Architects: Pascall + Watson

Contractor: Carillion

Applicator: The Progressive Group

The high-specification and robust industrial flooring screed **weberfloor 4610 industry top** was specified in the construction of below-ground access and service tunnels at Heathrow Airport Terminal 5 to create a durable, attractive and very hard-wearing surface.

The main terminal is constructed over eight storeys-five above ground and three below-and is served by two satellite buildings: Terminal 5B and Terminal 5C.

Two air-side access tunnels, which are both over 400m long and 8m wide, connect the new Satellite B and Satellite C buildings and go onward to the main T5A terminal. Their primary use is for the vehicular transport of disabled passengers and the movement of baggage between buildings.

weberfloor 4610 industry top is a standard drying screed and can be applied in thicknesses of 4-15mm and has high compressive and flexural strength. **weberfloor 4610 industry top** can take foot traffic within 2-4 hours of application and is fully cured after 7 days.

Project: London Film Museum, Covent Garden

Client: Capital and Counties Properties PLC (Capco)

Products: weberfloor 4310 fibre flow, weberfloor 4360 base flow rapid, weberfloor 4610 industry top

Architect: KPF, Kohn Penderson Fox Associates International

Contractor: Ellmer Construction

Applicator: Neonclass

High-performance products from the extensive range of Weber's commercial and architectural flooring products have been used in the newly refurbished Flower Cellars building in London's Covent Garden. This dramatic space has become a new cultural concept for the London Film Museum and the London home of the internationally acclaimed restaurant, Balthazar.

weberfloor 4310 fibre flow levelling screed, designed for the renovation of existing floors including floating floor construction in domestic and commercial applications, was pump-applied to 1700m² of floor space covering the exhibition areas, workshops, conference centre, restaurant and bars, and the vaulted entrance to the cloakroom facilities.

The remaining 800m² floor space of service corridors and plant rooms, were all pumped and installed with **weberfloor 4360 base flow rapid**. This fast-drying, fibre-modified base screed was then topped with a hard-wearing finish of **weberfloor 4610 industry top** industrial screed, and then sealed.

Client: Envisage Group

Product: weberfloor 4655 industry flow rapid

Applicator: Zenith Polar Flooring Services

A striking studio complex has been built in Coventry to meet the advanced engineering standards required of the up-market automotive manufacturers, private yacht builders and jet aircraft designers. Brilliantly illuminated, air-conditioned and totally functional, these studios require perfectly level floors to match the precisely positioned chassis bed-plates installed to carry the car, styling buck or interior trim pack.

The three main studio areas amount to 650m² of floor space. The surface was treated with a brushed coat application of **weberfloor 4716 primer**. This is a styrene acrylate dispersion primer that bonds into the existing flooring substrate to enhance the bond of the rapid drying screed which follows.

weberfloor 4655 industry flow rapid screed was pumped to deliver full volume material as quickly as possible. This self-levelling industrial flooring screed is designed to provide a hard wearing, durable floor where traffic abrasion is highest. It is suitable as a surface layer on industrial flooring. Application is up to ten times faster than traditional screeds and the rapid drying properties enable forklift movement or resin colour finishes to be applied with minimal downtime. At the Envisage studios great accuracy was required to ensure that the main floor surface ran exactly level with that of the chassis-plates installation so that vehicles on chassis trolleys moved smoothly into place.

Product selector guide

Product	Size	Application	Application thickness	Strength (EN13813)		Curing times	
				Comp.	Flex.	Foot Traffic	Final Covering
Commercial screeds							
weberfloor 4150 fine flow	25kg	Bonded	2-30mm	C25	F6	2-4 hours	1-3 weeks
weberfloor 4160 fine flow rapid	25kg	Bonded	2-30mm	C30	F7	1-3 hours	24 hours
weberfloor 4310 fibre flow	25kg	Bonded & Floating	5-50mm*	C25	F6	2-4 hours	1-3 weeks
weberfloor 4320 fibre flow rapid	25kg	Bonded & Floating	5-50mm*	C30	F7	1-3 hours	3 days
weberfloor 4360 base flow rapid	25kg	Bonded & Floating	20-80mm*	C30	F5	2-3 hours	3 days
Industrial screeds							
weberfloor 4610 industry top	25kg	Bonded	4-15mm	C35	F10	2-4 hours	1 week
weberfloor 4655 industry flow rapid	25kg	Bonded	4-15mm	C30	F8	1-2 hours	24 hours
Ancillary products							
weberfloor 4716 primer	5 & 25L	Most Substrates	1-2 coats				3-5 hours
weberfloor 4945 glass fibre mesh	100m rolls	Non-bonded or Weak Substrates					
weberfloor DPM	5.6kg	Most Substrates	2 coats				

* For application thicknesses for floating floor construction please contact Weber Technical Services on 01525 722110 for more details.

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