GUIDANCE ON PREPARATION

FOR A SUCCESSFUL SCREED APPLICATION

- The building should be **weathertight**
- Remove all dust & debris from floor surface
- Ensure all high & low points are removed from the sub-base so that insulation boards are laid flat
- Insulation boards should be butted with staggered joints
- **Perimeter expansion** insulation should be provided to all abutments as pictured
- All liquid screeds require a **polythene membrane** lapped and taped at joins (500 gauge advised)

UNDERFLOOR HEATING PREPARATION

- When installing underfloor heating on top of insulation, a **polythene separating membrane** should be installed on top of the insulation boards and all heating pipes and cables are to be securely fixed down using proprietary fixings
- A separating membrane is also required beneath a plastic tray system and should be lapped up walls
- Warm water systems should be **pressure tested** and filled prior to application.

GUIDANCE ON WASHOUT

To ensure an efficient screed installation, Easyflow requires a designated washout area for cleaning our screed pump.

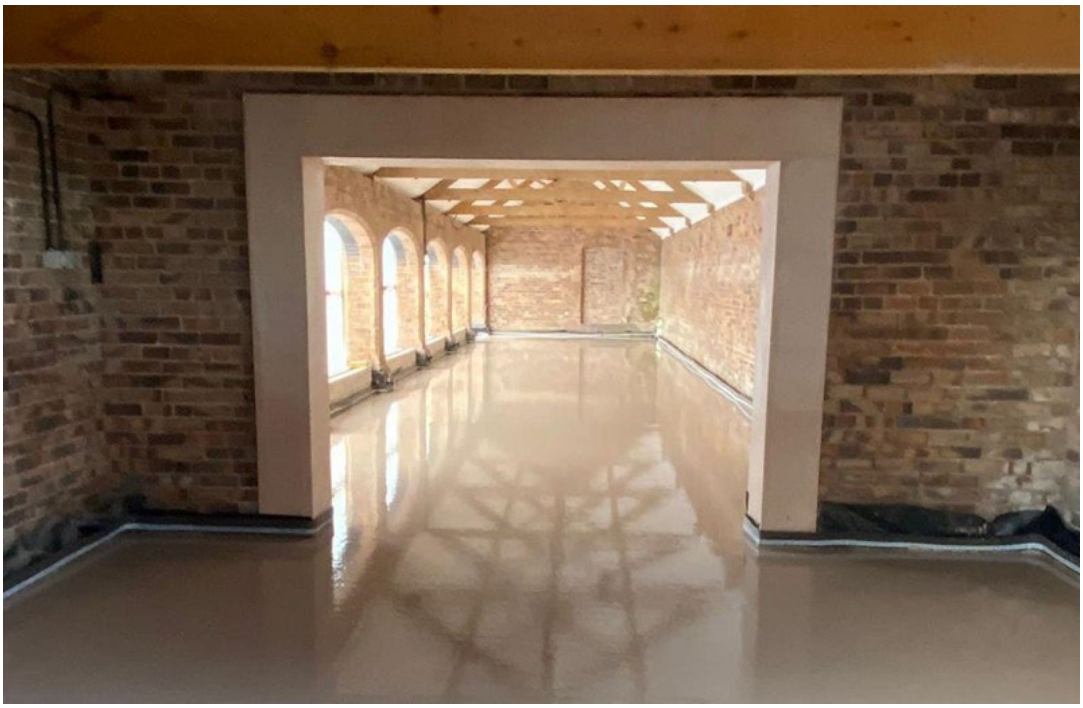
WASHOUT AREA REQUIREMENTS

- **Location:** At least **3m from** drains or water sources, on **level ground.**
- **Containment:** Use a plastic-lined skip or rubble pile with barriers to contain runoff.
- **Capacity:** Must hold **200L+** of residual material; pits should be **1m x 1m x 0.5m.**
- **Disposal:** Allow material to dry before removal; follow waste regulations.
- **Responsibility:** Customers must provide a skip or designated area; if not, Easyflow will arrange one and invoice accordingly.

EXAMPLE SET-UP

Below is an example of a suitable washout setup using a plastic-lined skip:

GUIDANCE ON AFTERCARE



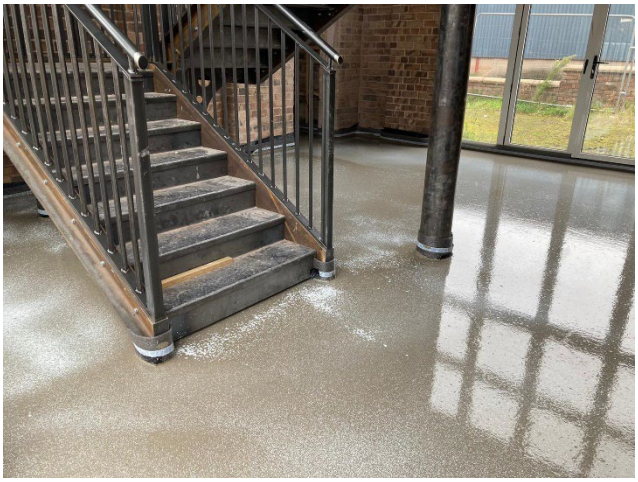
FOLLOWING SCREED APPLICATION

- Following installation, the environment must remain sealed for two days, the screed should be protected from sunlight and frost during this time
- The floor can be loaded after seven days
- Do not cover with polythene
- Storage of materials on the screed surface, accidental exposure to water, humid or cold environments will delay drying
- **It is essential to ensure that the screed is fully dried out prior to application of floor finishes**

SCREED OVER UNDERFLOOR HEATING

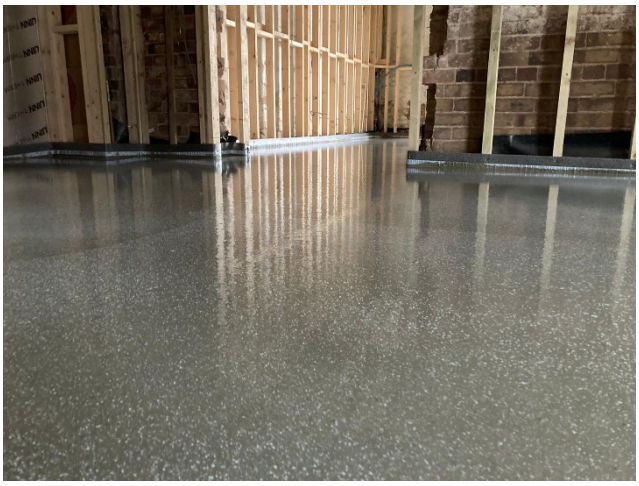
- Screed floors must be heated **prior to application of floor finishes** for drying and expansion/ contraction, this can commence seven days after screed installation
- Heating of the floor should be **gradual** in 3 to 5 degrees Celsius increments
- At no time should the temperature exceed fifty degrees Celsius
- A **3-week cycle** is recommended: 7 days running up; 7 days at operating temperature; 7 days cooling down

GUIDANCE ON DRYING SCREED



FOUR FACTORS TO CONSIDER WITH DRYING SCREED

- **Room temperature** – Elevating the room temperature will assist drying through improved evaporation
- **Relative humidity** – It is important to provide good ventilation to ensure a low relative humidity is achieved
- **Screed temperature** – UFH can be commissioned at 7 days, this raises the vapour pressure greatly improving the drying characteristics of the screed. This should be combined with ventilation
- **Moisture ingress** – EasyFlow screed should be protected from moisture ingress to prevent rehydration which will delay the drying process (500 gauge advised)



SCREED DRYING TIMES & FORCED DRYING

- EasyFlow screed dries at a rate of **1mm per day** up to a thickness of 40mm and then at a rate of ½ mm per day for thicknesses above this
- **Dehumidifiers** can be used after 72 hours
- Force drying using underfloor heating can **begin after 7 days**
- UFH systems should be allowed to cool for 48 hours before **moisture testing** can take place
- **Space heaters and dehumidifiers** can be used in combination but gas heaters should be avoided.

GUIDANCE ON SANDING & TESTING

SAND THE SCREED BEFORE PRIMING

- **Easyflow offers a sanding service for £4 per SQM***
- Sanding is required to **remove surface latency** and **create a key** to absorb primer
- Easyflow screeds require surface sanding prior to **any adhered floor coverings**
- We recommend sanding after **7 to 14 days**
- Using an orbital sanding machine fitted with 60 grit sandpaper or carborundum disc
- Sanding helps to **improve drying times**

MOISTURE TESTING

- Prior to floor coverings the screed moisture should be tested using either a hair hygrometer, carbide bomb or oven test and be below 75% RH (0.5% moisture)
- It may be possible to use Gypsum based products at 87% RH (1.5% moisture) but manufacturers must be consulted
- UFH should be turned off a minimum of 24 hours before moisture testing can take place

***75 minimum charge, travelling costs may apply**

GUIDANCE ON PRODUCTS

UZIN PE360

- Short drying times
- Ready to use
- Available from Easyflow in 5kg and 10kg

BALL Stopgap P121

- Designed to prevent the rapid drying of adhesives and smoothing underlayment to calcium sulphate (anhyrdrite) screeds

TREMCO CS175

- Epoxy primer for porous substrates
- Breathable sealer for calcium sulphate screeds
- Suitable for priming new and existing cementitious screeds and concrete

MAPEI Primer G

- Synthetic resin-based water dispersion primer
- For Gypsum surfaces prior to fixing ceramic tiles

BAL Prime APD

- Rapid-drying acrylic primer
- Stabilises dusty surfaces
- Reduces porosity

KeraKoll Primer A Eco

- Water-based surface primer
- Neutralises the chemical reaction of gypsum or anhydrite based plasters and screeds on contact with cement-based adhesives

GUIDANCE ON PRODUCTS

Tilemaster Rapid Setaflex

- 3mm to 12mm bed depth cement based S1 flexible **adhesive**

Laybond Screed master

- Two part solvent epoxy surface **damp proof membrane** for cementitious subfloors
- Suppresses residual moisture

Instarmac ProFlex SP

- Rapid set flexible tile adhesive
- Floor and wall tile **adhesive**

Tremco Treadfast

- Two-part epoxy-based surface **damp proof membrane**
- For use on concrete and sand cement floors

TEKCEM Gyptek

- Gypsum-based flexible tile **adhesive**
- High performance rapid setting qualities
- Suitable over underfloor heated floors

UZIN PE404 & PE280

- Rapid drying **resin DPM**
- Can be used in areas up to 95% RH
- Suitable for cement and calcium sulphate floors
- Can be used on underfloor heated floors

PRE-INSTALL CLIENT CHECKLIST

Ensure the building is weathertight with all windows and externals doors fitted. If windows/doors are not fitted, all openings need to be covered with temporary sheeting e.g. clear polythene.	
Client to provide a single, clear, agreed datum for the installers to work to.	
Provide an external washout area for the pump to be cleaned down and any excess material to be disposed of. This should be a lined skip or an enclosed rubble/waste pile.	
Ensure that the screeded area is free from draughts and excessive sunlight for the first 24-48 hours after the screed has been installed.	
A minimum of 500-gauge polythene membrane has been fitted over floor insulation, taped and sealed and either lapped up at perimeters or sealed to proprietary edge strips.	
A 5-8mm perimeter edge expansion foam should be correctly fitted to all perimeter walls and anything that will be protruding through the screed i.e. columns.	
If the project has underfloor heating, make sure all piping is fixed to the insulation every 300mm to prevent pipes floating in the screed.	
Underfloor heating pipes should be left under pressure during the screed installation.	
The floor area to be screeded must be free sound and free of dust, dirt, grease, oil and any other contaminants.	

Project Name: Client Name:

Date: Client Signature: