



# STOPGAP F77

## High-Performance Accelerated Waterproof Surface Membrane One-Coat Application System



Scan to view the product demonstration video



## PRODUCT DATA

### INTRODUCTION

**STOPGAP F77** is a solvent free two part epoxy resin system which cures to provide a waterproof surface membrane. STOPGAP F77 impedes the passage of residual construction moisture and rising damp from affecting subsequent floorcovering installations, therefore allowing early installation of floorcoverings in fast track building programmes.

STOPGAP F77 is pigmented black to allow the user to visually control coverage uniformity. It can be used to isolate residual construction moisture where relative humidity values are up to 98%.

### BASE PREPARATION

It is essential that STOPGAP F77 is applied to a clean and absorbent substrate. Any surface contaminants such as surface hardeners, cement laitance etc., should be removed to produce a slightly textured surface. The surface strength of the substrate should be greater than 1.5 N/mm<sup>2</sup> in accordance with BS 8204-6 Part 7.2. Power floated concrete should be mechanically prepared. New concrete or sand/cement screeds should be left for a minimum 7 days before surface preparation and application of the membrane.

For further guidance please refer to the F. Ball Subfloor Preparation Guide.

Rough, uneven or damaged concrete or sand/cement screeds must be smoothed/ repaired with STOPGAP 1200 PRO, STOPGAP GREEN BAG/114 or STOPGAP 460 EXTERIOR REPAIR. Joints between bays where continual movement of the base is not anticipated or small hollows may be filled with STOPGAP F77 mixed with clean dry sand and allowed to fully cure before applying the membrane.

Care must be taken to minimise the occurrence of pinholes in the underlayment when pre-smoothing.

It is essential that hygrometer readings in accordance with Appendix A of BS 8203 (Installation of resilient floor coverings) and BS 5325 (Installation of textile floor coverings) are taken and recorded prior to commencing the installation.



### FEATURES

- Impedes the passage of construction moisture and rising damp up to 98% RH with a single coat application
- Colour pigmented to aid coverage uniformity
- Can be applied direct over underfloor heating screeds using a coverage of 1.8m<sup>2</sup>/kg where readings are up to 90% RH

### PACKAGING

3kg kit

7kg kit

14kg kit

The resin and hardener are supplied in the correct quantities for mixing without measuring.

### HOW MUCH MATERIAL?

COVERAGE PER UNIT (ONE-COAT APPLICATION)		
	Up to 98% RH or up to 90% RH with Underfloor Heating	Up to 85% RH
3kg Kit	5.5m <sup>2</sup>	7.5m <sup>2</sup>
7kg Kit	12.5m <sup>2</sup>	17.5m <sup>2</sup>
14kg Kit	25m <sup>2</sup>	35m <sup>2</sup>

Note: The coverage rate refers to a smooth, clean surface. A textured or highly absorbent surface profile will reduce the coverage rate.

### TECHNICAL INFORMATION

Colour	Black
Coverage	Applications up to 98% RH – 1.8m <sup>2</sup> /kg Applications with underfloor heating up to 90% RH - 1.8m <sup>2</sup> /kg Applications up to 85% RH – 2.5m <sup>2</sup> /kg
Working Time	30 minutes at an ambient temperature of 20°C
Cure Time	Approximately 3 hours at an ambient temperature of 20°C

## APPLICATIONS OVER UNDERFLOOR HEATING

The cementitious levelling screed should have been laid in accordance with BS 8204 Part 1. The underfloor heating system should have been commissioned in accordance with the manufacturers instruction manual and in accordance with BS 8204 Part 1. Once thermally cycled and commissioned the underfloor heating system should be turned off for 48 hours prior to, during and 48 hours after, the installation of the STOPGAP F77, smoothing compound and floorcovering. The underfloor heating system should then be gradually recommissioned to avoid rapid thermal shock and temperature variation. The cementitious substrate should have a minimum pull off strength of 1.5N/mm<sup>2</sup>, in accordance with BS 8204-6 Part 7.2.

## PRECAUTIONS

Mix only in full packs as mixing ratios are critical. Failure to ensure that all of the resin and hardener is completely mixed prior to application will leave patches of tacky uncured material on the floor and render the membrane ineffective.

Joints designed to allow movement of the subfloor must not be bridged and should be terminated at the edge detail with STOPGAP F77 waterproof surface membrane. These joints must be sealed with a suitable impervious flexible jointing compound after the application of the membrane.

Do not store the products above 30°C prior to mixing as this will shorten the normal working times.

Do not use over synthetic anhydrite or other gypsum/sulphate subfloors.

The substrate must be at least 3°C above the dew point to reduce the formation of condensation that can adversely lead to failure between the membrane and the primer/underlayment. Do not use STOPGAP F77 where the subfloor is subject to hydrostatic pressure.

## MIXING

Empty all the contents of the Hardener container into the Resin container and thoroughly mix using a power whisk fitted in a low speed electric drill, until a uniform colour and consistency is achieved. **Mix for 2 minutes, scrape the sides of the container and then mix for a further 2-3 minutes. STOPGAP F77 hardens by chemical reaction. It is important that once mixed the membrane is applied immediately to the subfloor.**

## APPLICATION

The floor temperature must be above 10°C when the membrane is applied. STOPGAP F77 should be applied over the whole floor and up to the DPC in the wall.

**One coat system up to 98% RH or for use with underfloor heating to a maximum of 90% RH.**

Pour the product onto the prepared floor immediately after mixing. Spread the membrane using a 1.5mm x 5mm trowel (included) to achieve the correct coat weight of 1.8m<sup>2</sup> per kg. Using a pre-coated roller, roll the material to obtain an even, pinhole free coating, ensuring the coverage rate is not exceeded.

**One coat system up to 85% RH**

Pour the product onto the floor immediately after mixing. Spread the membrane using an A2 trowel to achieve the correct coat weight of 2.5m<sup>2</sup> per kg. Using a pre-coated roller, roll the material to obtain an even, pinhole free coating, ensuring the coverage rate is not exceeded.

It is essential that the membrane hardens to form a continuous coating, free from pinholes or weak spots and that it has a glossy black finish over the whole surface. When applied to very absorbent surfaces, the membrane can be absorbed into the subfloor leaving a subdued shine. In such instances or where pinholes and weak spots are evident, a second application will be required.

When the membrane has fully cured apply neat STOPGAP PI31 primer before applying a smoothing underlayment with the exception of STOPGAP I200 PRO which can be applied directly to the membrane within 24 hours of curing.

Under certain conditions it may be possible to apply a suitable adhesive such as STYCCOBOND F40, F41, F46, F49 or B95 direct to the fully cured membrane.

## WORKING TIMES

Once mixed and poured on to the floor STOPGAP F77 will remain workable for approximately 30 minutes at 20°C. If mixed and left in the container, the working time of STOPGAP F77 will be significantly reduced.

## CURING TIMES

This greatly depends on temperature, approximately 3 hours @ 20°C, making sure the surface is fully cured and tack-free before proceeding to apply the primer and underlayment.

## TOOLS

1.5mm x 5mm trowel (included) or A2 trowel and paint roller.  
Use F. Ball STYCCOWIPES to remove uncured material from tools and equipment.

## STORAGE

Store between 5°C and 30°C.

## SHELF LIFE

18 months in unopened containers stored under good conditions.

## HEALTH & SAFETY ADVICE

This product is classified. Obtain the relevant Safety Data Sheets and follow the advice given. These can be found at [www.f-ball.co.uk](http://www.f-ball.co.uk).

Alternatively, these can be requested from the point of purchase or from F. Ball and Co. Ltd. at the address below.

Site conditions vary, to ensure this product is suitable and confirm this data sheet is current, please contact our Technical Service Department.

**For further information about F. Ball products or more detailed technical assistance, please contact:**



Churnetside Business Park  
Station Road, Cheddleton, Leek  
Staffordshire ST13 7RS  
United Kingdom

Tel: +44 (0) 1538 361633

Email: [mail@f-ball.co.uk](mailto:mail@f-ball.co.uk)

[www.f-ball.co.uk](http://www.f-ball.co.uk)

