

# 3M™ Scotchkote™ External Wall Coating FP 812

## Data Sheet and Application Guide

### Product Description

Scotchkote External Wall Coating FP 812 has been specifically developed as a weatherproofing, anti carbonation coating for external walls.

### Product Features

- Combines good application characteristics with fast drying capabilities.
- Can be applied to most surfaces without the need for a primer.
- Can be applied by brush, roller or airless spray.
- Provides an abrasion resistant finish with a high degree of flexibility.

### General Application Steps

1. Remove loosely adhering deposits.
2. Apply Scotchkote External Wall Coating FP 812 to the required film thickness
3. Allow to cure.
4. Inspect the coating for defects.
5. Repair all defects.

### Properties

Property	Value
Colour	White and select colour range
<b>Drying &amp; Cure times at 20°C (68°F)</b>	
Touch Dry	30 mins
Minimum Overcoating	2 hours
Maximum Overcoating	Indefinite provided surfaces are clean
Volume Solids	60%
Specific Gravity	1.35
V.O.C (As Supplied)	Nil
Film Thickness	400 microns wet, 240 microns dry.
Theoretical Coverage Rate	2.5 sq metres per litre at 240 microns dft.

#### Note

The actual thickness to be applied should be agreed between the specifier and the manufacturer dependent on operational performance criteria and may be higher or lower than the quoted typical value. Detailed system recommendations are available on request.

### Performance Data

Direct Pull Adhesion	2.75Mpa (400 psi) - Concrete (ASTM D4541)
Water Vapour Permeability	1.034 x 10 <sup>-4</sup> perm.cm (ASTM E96)
Tensile Strength	5.51Mpa (800 psi) (ASTM D412)
Elongation	100% (ASTM D412)
Tear Strength	12N/mm (69 pli) (ASTM D624)
Ozone Resistance (160 hrs/110ppm at 104°F)	No cracking (ASTM D1149)
Water Vapour Transmission	5.73gm/hour/m <sup>2</sup> (ASTM E96)
Carbon Dioxide Diffusion	2.32 x 10 <sup>-7</sup> cm <sup>2</sup> s <sup>-1</sup> (Taywood Method)
Crack Bridging Properties	Excellent upto 3mm (BS3900 H4)
Chloride Ion Diffusion	Nil after 6 months (Taywood Method)



# Application Procedures for 3M™ Scotchkote™ External Wall Coating FP 812

## Surface Preparation

All surfaces should be clean, dry and free from other contamination. Any areas subject to mould should be cleaned then treated with a proprietary fungicidal wash.

Any surfaces contaminated with dirt, oil or grease should be detergent pressure washed and allowed to dry. Surfaces should then be swept free of all dust and loose materials. Surfaces of existing coatings should be lightly abraded.

## Application Procedures

The product is supplied ready for use and requires no mixing, however stirring the product to incorporate any slight separation is advised before use.

The product should not be applied below 5°C, or when humidity exceeds 90%.

Wall surfaces do not normally require priming, however on certain very porous surfaces the application of a 'sealer coat' of the product thinned 20-25% with water can be used to ensure a uniform finish is achieved.

**Brush and Roller Application:** The product should be applied using good quality brushes or medium to long pile rollers, to give an even coating. On rough surfaces, the material should be worked into the surface to ensure complete coverage.

**Spray Application:** The product can be applied by airless spray with a spray pressure of 2500psi. The spray tip should be 19-21 thou orifice. No thinning of the product is required for spray application.

The material should be applied to achieve a total dry film thickness of 100 microns.

## Handling and Safety Precautions

Read all health hazard, precautionary and first aid statements found in the Material Safety Data Sheet, and/or product label prior to handling or use.

3M and Scotchkote are trademarks of 3M Company.

## Important Notice

All statements, technical information and recommendations are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using the 3M™ Scotchkote™ Product, you must evaluate it and determine if it is suitable for your intended application. Because conditions of product use are outside of 3M control's and vary widely you assume all risks and liability associated with such use. Any product related statements not contained in current 3M publications, or any contrary statements contained in your purchase order, shall have no force or effect unless expressly agreed to in writing by an authorised officer of 3M.

## Warranty; Limited Remedy; Limited Liability.

3M warrants that the 3M™ Scotchkote™ Product will conform to 3M published specifications upon shipment. If the product is proven not to have met the specifications your exclusive remedy within 12 months of sale by 3M of the product and 3M's sole obligation will be, at 3M's option, to replace the Product or to refund the purchase price of the Product. Except where prohibited by law, this warranty is made in lieu of all other warranties, express or implied, including, but not limited to, any implied warranty of suitability or fitness for a particular purpose, or those arising from a course of dealing, custom or usage or trade.

3M has no obligation under this warranty with respect to any product that has failed due to inadequate or improper storage, handling, surface preparation, application, or maintenance; failure to follow product instructions or recommendations or alteration or damage to the Product caused by accident, neglect, or misuse. OTHER THAN IN THE CASE OF DEATH OR PERSONAL INJURY CAUSED BY ITS NEGLIGENCE AND EXCEPT WHERE PROHIBITED BY LAW, IN NO EVENT SHALL 3M BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL LOSS OR DAMAGES (INCLUDING LOST PROFITS) ARISING FROM THIS PRODUCT, REGARDLESS OF THE LEGAL THEORY ASSERTED.



### Infrastructure Protection Division (IsPD) 3M United Kingdom plc

23 Standard Way Industrial Estate  
Northallerton  
North Yorkshire DL6 2XA  
United Kingdom  
Phone: +44 (0)1609 780170  
Fax: +44 (0)1609 780438  
www.3M.co.uk/scotchkote

### Infrastructure Protection Division (IsPD) 3M United Kingdom plc

3M Centre  
Cain Road, Bracknell  
Berkshire RG12 8HT  
Phone: 01344 858000  
Fax: 01344 857970  
www.3M.co.uk

All equipment must be cleaned with water IMMEDIATELY after use, stubborn deposits can be removed using 3M™ Scotchkote™ Cleaner 020.

## Packaging and Storage

Supplied in 20 litre units.

Use within 2 years of date of manufacture. Store in original sealed containers at temperatures between 5°C and 32°C.

ALWAYS PROTECT FROM FROST DURING STORAGE AND USE.

## Ordering Information/Customer Service

For ordering, technical and product information or to request a copy of the Material Safety Data Sheet, call +44 (0)1609 780170 or fax +44 (0)1609 783762 (Sales) or 788718 (Technical).

For emergencies, please contact +44 (0)1344 858000.

Please recycle. Printed in UK.  
© 3M 2013. All rights reserved.  
FP812-0113