

# 3M™ Scotchkote™ Epoxy Concrete Repair PR 415

## Data Sheet and Application Guide

### Product Description

Scotchkote Epoxy Concrete Repair PR 415 has been specifically developed as a three component 100% solids self priming concrete repair system.

### Product Features

- Combines good application characteristics with excellent chemical resistance.
- Designed for application by trowel or float.
- Can be used to form wall/floor coverings and can be laid to falls.

**Adhesion:** Excellent to correctly prepared surfaces.

**Chemical Resistance:** Unaffected by most industrial chemicals.

**Abrasion Resistance:** High order of resistance to abrasion and mechanical damage

### General Application Steps

1. Remove oil, grease and loosely adhering deposits.
2. Prepare the surface.
3. Apply Scotchkote Epoxy Concrete Repair PR 415 to the thickness required
4. Allow to cure.
5. Visually inspect the system for defects.
6. Repair all defects.

## Properties

Property	Value
Colour	Light Grey
Ratio	mix as supplied
<b>Drying &amp; Cure times at 20°C (68°F)</b>	
Useable life	25 mins
Hard Dry	3½ hours
Full Cure	7 days
Volume Solids	100%
V.O.C	Nil
Film Thickness (Typical)	Wet/Dry 6 mm.
Theoretical Coverage Rate	0.08 m <sup>2</sup> /kilo at 6 mm dft (0.86 ft <sup>2</sup> /kilo at 240 mils dft)
<b>Performance Data</b>	
Abrasion Resistance	145 mgm weight loss per 1000 cycles, CS17 wheel 1kg load (ASTM D4060)
Impact Resistance	1.8 joules (16 ins/lbs) (ASTM D2794)
Compressive Strength	82.75Mpa (12000 psi) (ASTM D695)
Dry Heat Resistance	135°C (275°F) (ASTM D2485)
Direct Pull Adhesion	3.5Mpa (500 psi) - Concrete (Concrete Failure) (ASTM D4541)
Flexural Strength	45Mpa (6500 psi) (ASTM D790)



# Application Procedures for 3M™ Scotchkote™ Epoxy Concrete Repair PR 415

## Surface Preparation

All surfaces should be clean, dry and free from loose material.

Surfaces should have all surface laitence removed by mechanical means, if required, surfaces should then be primed with mixed Scotchkote Epoxy Concrete Repair PR 415 resins.

## Priming

Whilst Scotchkote Epoxy Concrete Repair PR415 is designed for use without a primer, on very porous surfaces a coat of the mixed Part A (Base) and Part B (Activator) should be applied to wet out the surface before the Aggregate component is added.

## Product Mixing

The product is a three component material comprising Part A (Base) and Part B (Activator) components and an Aggregate component which must be mixed together prior to use.

The Part A (Base) and Part B (Activator) components should be thoroughly mixed together in the outer container of the pack. After mixing continue stirring and add the total contents of the Aggregate bag, care must be taken to ensure thorough 'wetting' of the aggregate to prevent the formation of agglomerates. The use of a forced action mechanical mixer is recommended to ensure thorough and complete mixing. The mixed product must be used within 25 minutes of mixing at 20°C.

## Application Procedures

Application should not be carried out when humidity exceeds 85%, or when the surface to be coated is less than 3°C above the dew point.

Application is best carried out when the surface to be coated is above 10°C.

The mixed product should be applied with a float or trowel to the required thickness with a steel float being used to smooth the product out.

The product can be feather edged where required to finish smooth with the surrounding concrete.

All equipment must be cleaned IMMEDIATELY after use with 3M™ Scotchkote™ Cleaner 020.

## Packaging and Storage

Supplied in 5 kilo packs

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

## 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

Please recycle. Printed in UK.  
© 3M 2013 All rights reserved.  
PR 415-0113