

# 3M™ Scotchkote™ Urethane Coating 352 BG

Updated  
Supersedes

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## Data Sheet and Application Guide

### Product Description

Scotchkote Urethane Coating 352 BG is a brush applied two component coating system designed to protect buried steel structures from the harsh affects of corrosion. Scotchkote Urethane Coating 352 BG can also be used in a wide variety of other field applications where corrosion protection of metal is required.

### Product Features

- Compatible with cathodic protection systems and provides outstanding resistance to cathodic disbondment and loss of adhesion due to wet environments.
- Designed for immersion or dry service.
- Allows applications to be performed in difficult conditions that require fast turn around time and good chemical resistance.
- Optimum ambient temperature range for field application is -10°C/14°F to 35°C/95°F.

### General Application Steps

1. Remove oil, grease and loosely adhering deposits.
2. Abrasive blast clean the surface to NACE No. 2/SSPC SP10 near-white metal, ISO 8501:1, Grade SA 2½.
3. Apply Scotchkote Urethane Coating 352 BG coating at the specified thickness.
4. Allow to cure.
5. Visually or electrically inspect the coating for defects.
6. Repair all defects.

### Properties

| Properties  | Value                            |
|---|----------------------------------|
| Colors  | Grey                             |
| Ratio   | 3A - 1B                          |
| Solids content  | 100%                             |
| Adhesion Instron at 25°C  | 3000+ psi/210+kg/cm <sup>2</sup> |
| Adhesion, 1,000 hours, 80° C, wet, (Russia VNIIST Institute)                          | Start 15 mpa<br>Finish 10 mpa    |
| Water Soak Adhesion<br>14 days, 90°C/194°F  | No loss of adhesion              |
| Abrasion Resistance<br>Taber CS 7 wheel<br>1000g 1000 cycles                          | 42 mg weight loss                |
| Impact Resistance @ 30 mils   | 60 inch-pounds/6.8 J             |
| Cathodic Disbondment<br>65°C/150°F -1.5V 5% NaCl<br>14 days, 3 mm holiday             | 11 mm r                          |
| CSA Z245.20-02<br>23°C/73°F -1.5V 3% NaCl<br>28 days, 3.2 mm holiday                  | 8 mm r                           |
| CDT<br>80°C/176°F -1.5V 3% NaCl<br>28 days, 3 mm holiday<br>(Russia VNIIST Institute) | 12 cm <sup>2</sup> area          |
| Film Build  | 20 mils minimum                  |
| Cure Time<br>20°C/68°F  | 2 hours                          |
| Hardness  | Shore D-87                       |
| Coverage  | 2m <sup>2</sup> @500 µm          |
| Wet Adhesion<br>CSA Z245.20-98<br>65°C/149°F, 28-day water<br>immersion<br>3 panels   | 1,1,1 rating                     |
| Impact<br>CSA Z245.20-98<br>1.5 J/13.3 in•lbs   | No failures                      |



# Application Procedures for Scotchkote Urethane Coating 352 BG

## Surface Preparation

Steel surfaces shall be clean and free of dirt, oil, or other contaminants prior to abrasive blasting. Slivers, rough welds, or other defects in the steel shall be ground out prior to abrasive blasting. Abrasive blasting shall be carried out to a near white metal blast using clean abrasive. Abrasive blast clean the surface to NACE No. 2/SSPC SP10 near-white metal, ISO 8501:1, Grade SA 2½.

During the blasting operation and until the final coating procedure has been finished, the temperature of the steel shall be greater than 3°C/5°F above the dew point.

## Application Procedures

Scotchkote Urethane Coating 352 BG should not be applied when the relative humidity exceeds 90% or when the surface to be coated is less than 3°C above the dew point. Scotchkote Urethane Coating 352 BG is intended for application by brush and should be applied to give a uniform even thickness. Ideally Scotchkote Urethane Coating 352 BG should be applied in a single coat. If a second coat is required for any reason, overcoating must be carried out within 24 hours of application of the preceding coat. If the overcoating time is extended, thorough mechanical abrading or flash blasting of the first coat should be carried out once the coating is hard dry.

## 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.

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## 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.

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Clean all equipment immediately after use with 3M™ Scotchkote™ Thinners PU71.

## Packaging and Storage

Supplied separately in 2 litre packs and 20 litre units (3 x Part A and 1 x Part B).

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

## 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.

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

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