

## 3M Water Infrastructure

3M™ Scotchkote™ Coatings for OEM & Maintenance Applications



# Efficiency, Performance, Protection & Trust

3M Company is a recognized leader in providing sustainable, economic solutions for maintaining and protecting critical infrastructure.

By leveraging more than 50 years of pipe coating experience and unsurpassed research and development capabilities, 3M can help solve the issues which threaten our potable and wastewater systems and improve the efficiency with which these systems operate.







# Corrosion Protection

The 3M™ Scotchkote™ family of products is designed specifically for the needs of the water industry. The unique product attributes address a wide range of application requirements like: flexibility, adhesion, temperature performance, corrosion resistance and damage protection to suit even the harshest of environments. Whether 3M™ Scotchkote™ products are used to help protect new assets or to rehabilitate aging infrastructure, they are designed to help improve both the longevity and efficiency of potable water and wastewater systems.

For more information on 3M technologies, or to find an applicator near you, visit [www.3M.com/water](http://www.3M.com/water)



## Products by Application

|  |  |  |  |  |
|--|---|---|---|---|
|  | Potable Water Pipes   | Sea Water, Wastewater and Effluent Pipes  | Valves, Pumps, Fittings, Manifolds  | Tanks & Vessels   |
| <b>Epoxy Coatings &amp; Sealers</b>              |   |   |   |   |
| 162PWX   | NSF/ANSI 61   |   | NSF/ANSI 61   | NSF/ANSI 61   |
| 162HB  |   | ✓   |   | ✓   |
| EA5WB  |   |   | ✓   |   |
| KSIR88   |   | ✓   | ✓   |   |
| SP 810   |   |   |   | ✓   |
| <b>Fusion-Bonded Epoxy (FBE) Custom Coatings</b> |   |   |   |   |
| 134W   | NSF/ANSI 61   |   | NSF/ANSI 61   | ✓   |
| 206N   | NSF/ANSI 61   |   | NSF/ANSI 61   | ✓   |
| <b>Urethane Coatings &amp; Sealers</b>           |   |   |   |   |
| 165HB  |   | ✓   |   | ✓   |
| 165CS  |   |   |   | ✓   |

## Products by Application Method

|  | Field Applied or Factory Applied |                    |                                    | Factory Applied Only                    |
|--|----------------------------------|--------------------|------------------------------------|---|
|  | Brush/Roller or Trowell          | Heater Plural Feed | Airless or Air-Assisted<br>Airless | Electrostatic Spray<br>or Fluidized Bed |
| <b>Epoxy Coatings &amp; Sealers</b>              |                                  |                    |                                    |   |
| 162PWX   |                                  | ✓                  |                                    |   |
| 162HB  |                                  | ✓                  |                                    |   |
| EA5WB*   |                                  |                    | ✓                                  |   |
| KSIR88*  | ✓                                | ✓                  |                                    |   |
| SP 810   | ✓                                |                    |                                    |   |
| <b>Fusion-Bonded Epoxy (FBE) Custom Coatings</b> |                                  |                    |                                    |   |
| 134W   |                                  |                    |                                    | ✓                                       |
| 206N   |                                  |                    |                                    | ✓                                       |
| <b>Urethane Coatings &amp; Sealers</b>           |                                  |                    |                                    |   |
| 165HB  |                                  | ✓                  |                                    |   |
| 165CS  | ✓                                |                    |                                    |   |

\*Consult local air quality regulations that may regulate product sale or usage.

## Epoxy Coatings

### 3M™ Scotchkote™ Epoxy Coating 162PWX

3M™ Scotchkote™ Epoxy Coating 162PWX has been specifically developed to help provide corrosion resistance in potable water applications. This 100% solids lining can be spray applied on the internals of metal pipes, tanks, vessels and other equipment in contact with potable water. The ease of use combined with excellent corrosion and chemical resistance make this an extremely versatile product for infrastructure protection.



|   |   |
|---|---|
| <b>Potable Water Contact Approvals:</b> | NSF/ANSI 61, Regulations 31(4)a, WRAS, AFNOR XP P 41-256, AS/NZS 4020, OTEC, ARPAL                |
| <b>Surface:</b>                         | Steel, ductile and cast iron, sealcoat for CML lined pipe   |
| <b>Application Method:</b>              | Plural feed heated airless spray  |
| <b>V.O.C (As Supplied)</b>              | 0.5 g/L, as calculated  |
| <b>Ratio:</b>                           | 2:1 (Part A:Part B)   |
| <b>Theoretical Coverage:</b>            | 2 sq meter per liter (21.5 sq feet per liter) at 500 micron (20 mil) dft                          |
| <b>Drying &amp; Cure Time:</b>          | Hard dry 6 hours, full cure 7 days at 20°C (68°F)   |
| <b>Applied Thickness:</b>               | Application dependent, single pass. For NSF certified applications, max thickness is 1mm (40 mil) |
| <b>Shelf Life:</b>                      | 5 years, store between 5°C (40°F) and 32°C (90°F)   |
| <b>Package Sizes:</b>                   | 1 liter packs, separately in 18 liter and 180 liter units   |
| <b>Colors:</b>                          | Grey or blue  |

### 3M™ Scotchkote™ Epoxy Coating 162HB

3M Scotchkote™ 162HB Epoxy Coating helps provide excellent corrosion resistance for both internal and external surfaces. This 100% solids lining can be used to coat pipes, tanks, vessels and other equipment in contact with sea water, raw water and wastewater.

|   |  |
|---|--|
| <b>Potable Water Contact Approvals:</b> | Not approved for potable water applications                              |
| <b>Surface:</b>                         | Steel, concrete (when used with 3M™ Scotchkote™ Epoxy Sealer SP 810)     |
| <b>Application Method:</b>              | Plural feed heated airless spray   |
| <b>V.O.C (As Supplied)</b>              | 6.5 g/L, as calculated   |
| <b>Ratio:</b>                           | 2:1 (Part A:Part B)  |
| <b>Theoretical Coverage:</b>            | 2 sq meter per liter (21.5 sq feet per liter) at 500 micron (20 mil) dft |
| <b>Drying &amp; Cure Time:</b>          | Hard dry 16 hours, full cure 7 days at 20°C (68°F)                       |
| <b>Applied Thickness:</b>               | Application dependent, single pass, up to 1mm (39 mil)                   |
| <b>Shelf Life:</b>                      | 5 years, store between 5°C (40°F) and 32°C (90°F)                        |
| <b>Package Sizes:</b>                   | 1 liter packs, separately in 18 liter and 180 liter units                |
| <b>Colors:</b>                          | Light grey or red oxide  |



### 3M™ Scotchkote™ Epoxy Sealer SP 810

3M™ Scotchkote™ Epoxy Sealer SP 810 is a low viscosity primer/sealer for use with concrete and cementitious surfaces prior to application of other 3M™ Scotchkote™ solvent-free epoxy systems (e.g. 3M™ Scotchkote™ Epoxy Coating 162HB)

|                                |   |
|--------------------------------|---|
| <b>Potable Water</b>           | Not approved for potable water                                    |
| <b>Contact Approvals:</b>      | applications  |
| <b>Surface:</b>                | Concrete (sealer only)  |
| <b>Application Method:</b>     | Brush or roller   |
| <b>V.O.C. (As Supplied):</b>   | 0 g/L, as calculated  |
| <b>Ratio:</b>                  | 2:1 (Part A:Part B)   |
| <b>Theoretical Coverage:</b>   | 9.2 sq meter per kg (99 sq feet per kg) at 100 micron (4 mil) dft |
| <b>Drying &amp; Cure Time:</b> | Hard dry 16 hours, full cure 7 days at 20°C (68°F)                |
| <b>Applied Thickness:</b>      | Application dependent, overcoat within 24 hours                   |
| <b>Shelf Life:</b>             | 5 years, store between 5°C (40°F) and 32°C (90°F)                 |
| <b>Package Sizes:</b>          | Separately in 2 kg, 5 kg and 20 kg packs                          |
| <b>Color:</b>                  | Clear   |

### 3M™ Scotchkote™ Epoxy Coating KSIR88

3M™ Scotchkote™ Epoxy Coating KSIR88 is a high performance solvent based coating for pumps, valves, fittings, tanks and pipelines. Scotchkote Epoxy Coating KSIR88 combines good application characteristics with excellent corrosion protection and chemical resistance.

|                                |   |
|--------------------------------|---|
| <b>Potable Water</b>           | WRAS  |
| <b>Contact Approvals:</b>      |   |
| <b>Surface:</b>                | Steel   |
| <b>Application Method:</b>     | Brush, roller, airless spray  |
| <b>V.O.C. (As Supplied):</b>   | 350 g/L, as calculated  |
| <b>Ratio:</b>                  | 3.5:1 (Part A:Part B)   |
| <b>Theoretical Coverage:</b>   | 4.8 sq meter per liter (51.7 sq feet per liter) at 125 micron (5 mil) dft |
| <b>Drying &amp; Cure Time:</b> | Hard dry 8 hours, full cure 7 days at 20°C (68°F)                         |
| <b>Applied Thickness:</b>      | Application dependent, overcoat within 24 hours                           |
| <b>Shelf Life:</b>             | 2 years, store between 5°C (40°F) and 32°C (90°F)                         |
| <b>Package Sizes:</b>          | 4 or 20 liter packs   |
| <b>Colors:</b>                 | Cream, blue, or black   |



### 3M™ Scotchkote™ WB Epoxy Coating EA5WB

3M™ Scotchkote™ WB Epoxy Coating EA5WB is a high performance waterborne coating for pumps, valves, and fittings. This product helps provide long term corrosion resistance for steel, stainless steel and aluminum substrates.

|                                |  |
|--------------------------------|--|
| <b>Potable Water</b>           | WRAS   |
| <b>Contact Approvals:</b>      |  |
| <b>Surface:</b>                | Steel, Aluminum  |
| <b>Application Method:</b>     | Airless Spray  |
| <b>V.O.C. (As Supplied):</b>   | 90 to 125 g/L, as calculated   |
| <b>Ratio:</b>                  | 5:1 (Part A:Part B)  |
| <b>Theoretical Coverage:</b>   | 5.6 sq meter per liter (60.3 sq feet per liter) at 80 micron (3.1 mil) dft |
| <b>Drying &amp; Cure Time:</b> | Hard dry 24 hours, full cure 7 days at 20°C (68°F)                         |
| <b>Applied Thickness:</b>      | Application dependent, single pass   |
| <b>Shelf Life:</b>             | 2 years, store between 5°C (40°F) and 32°C (90°F)                          |
| <b>Package Sizes:</b>          | 5 liter packs, separately in 20 liter units                                |
| <b>Colors:</b>                 | Blue   |

## Fusion-Bonded Epoxy (FBE) Coatings

### 3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 206N

3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 206N is a baked on epoxy coating that can be custom applied to protect pipelines (external and internal) and a variety of components including valves, pumps, tapping saddles, pipe appurtenances, manifolds, sewage aerators, tanks, pipe hangers, ladders, hydrants, cast iron risers and flow meters from corrosion. Scotchkote FBE Coating 206N is available in two different formulations to provide coverage in various processes: Extra Long Gel format helps provide product gel and flow characteristics to produce a smooth, continuous coating with high edge coverage. The Fluid Bed format enables even dispersion of product and optimum fluidization in the largest of fluid beds.



Certified to NSF/ANSI 61

|   |  |
|---|--|
| <b>Potable Water Contact Approvals:</b> | NSF/ANSI 61, WRAS<br>Approved for Pipes, Valves, Pumps only  |
| <b>Surface:</b>                         | Steel  |
| <b>Application Method:</b>              | Manual flocking (air spray), electrostatic spray, fluid bed dip                                    |
| <b>V.O.C. (As Supplied):</b>            | 0 g/L, as calculated   |
| <b>Ratio:</b>                           | One part, heat curable   |
| <b>Fluid Bed Density:</b>               | 398 kg per cubic meter<br>(25 lb per cubic ft)   |
| <b>Theoretical Coverage:</b>            | 0.694 sq meter per kg per mm<br>(134 sq feet per pound per mil)                                    |
| <b>Applied Thickness:</b>               | Application dependent.<br>For NSF certified applications, max approved thickness is 1.5mm (60 mil) |
| <b>Drying &amp; Cure Time:</b>          |  |
| <b>Fluid Bed:</b>                       | 37 second gel, 6 minute cure at 218°C (425°F)  |
| <b>Extra Long Gel:</b>                  | 90-115 second gel, 18 minute cure at 193°C (380°F)   |
| <b>Shelf Life:</b>                      | 1 year, store below 27°C (80°F)  |
| <b>Package Sizes:</b>                   | 65 lb box or 2205 lb sack  |
| <b>Colors:</b>                          | Blue-green   |

### 3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 134W

3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 134W is a baked on epoxy coating that can be custom applied to help protect pipelines (external and internal) and a variety of components including valves, pumps, tapping saddles, pipe appurtenances, manifolds, sewage aerators, tanks, pipe hangers, ladders, hydrants, cast iron risers and flow meters from corrosion. Scotchkote FBE Coating 134W is designed for flock or electrostatic spray application. Because of its long gel time (up to 2.5 minutes at 350°F/177°C), 3M™ Scotchkote™ 134W maximizes the time of application so that large surface areas or parts with complex recesses can be coated without overspray or laminations.



Certified to NSF/ANSI 61

|   |   |
|---|---|
| <b>Potable Water Contact Approvals:</b> | NSF/ANSI 61<br>Approved for Pipes, Valves, Pumps only   |
| <b>Surface:</b>                         | Steel   |
| <b>Application Method:</b>              | Manual flocking (air spray), electrostatic spray, fluid bed dip   |
| <b>V.O.C. (As Supplied):</b>            | 0 g/L, as calculated  |
| <b>Ratio:</b>                           | One part, heat curable  |
| <b>Fluid Bed Density:</b>               | 530 kg per cubic meter<br>(33 lb per cubic ft)  |
| <b>Theoretical Coverage:</b>            | 0.66 sq meter per kg per mm<br>(127 sq feet per pound per mil)  |
| <b>Applied Thickness:</b>               | Application dependent.<br>For NSF certified applications, max approved thickness is 1.5mm (60 mil)                                  |
| <b>Drying &amp; Cure Time:</b>          | 120 second gel, 15 minute cure at 204°C (400°F). For NSF approved applications a minimum of 25 minutes at 218°C (425°F) is required |
| <b>Shelf Life:</b>                      | 1.5 years, store below 27°C (80°F)  |
| <b>Package Size:</b>                    | 65 lb box   |
| <b>Color:</b>                           | Forest Green  |

## Urethane Coatings

### 3M™ Scotchkote™ Urethane Coating 165HB

3M™ Scotchkote™ Urethane Coating 165HB, is a two component 100% solids urethane coating system formulated to combine outstanding abrasion and impact resistance with a significant degree of flexibility. Used for diverse applications including internal and external protection of steel and concrete pipes, tanks, and vessels, bridges and related building and engineering structures and fabrications. Suitable for a variety of immersion conditions including sea, foul and raw water; also in chemically polluted, marine or underground environments.

|                                |  |
|--------------------------------|--|
| <b>Potable Water</b>           | Not approved for potable water   |
| <b>Contact Approvals:</b>      | applications   |
| <b>Surface:</b>                | Steel, concrete (when used with 3M™ Scotchkote™ Urethane Sealer 165CS)           |
| <b>Application Method:</b>     | Plural feed heated airless spray   |
| <b>V.O.C. (As Supplied):</b>   | 0 g/L, as calculated   |
| <b>Ratio:</b>                  | 4:1 (Part A:Part B)  |
| <b>Theoretical Coverage:</b>   | 1 sq meter per liter (10.76 sq feet per liter) at 1000 micron (39 mil) dft       |
| <b>Drying &amp; Cure Time:</b> | Hard dry 6 hours, full cure 7 days at 20°C (68°F)                                |
| <b>Applied Thickness:</b>      | Application dependent, single pass, up to 2mm (80 mil), overcoat within 24 hours |
| <b>Shelf Life:</b>             | 2 years, store between 5°C (40°F) and 32°C (90°F)                                |
| <b>Package Sizes:</b>          | Separately in 18 and 180 liter units   |
| <b>Color:</b>                  | Grey   |

### 3M™ Scotchkote™ Urethane Sealer 165CS

3M™ Scotchkote™ Urethane Sealer 165CS has been specifically developed as a low viscosity primer/sealer for concrete and cementitious surfaces prior to application of other 3M™ Scotchkote™ urethane coatings systems (e.g. 3M™ Scotchkote™ Urethane Coating 165HB).

|                                |   |
|--------------------------------|---|
| <b>Potable Water</b>           | WRAS  |
| <b>Contact Approvals:</b>      |   |
| <b>Surface:</b>                | Concrete (sealer only)  |
| <b>Application Method:</b>     | Brush or roller   |
| <b>V.O.C. (As Supplied):</b>   | 6 g/L, as calculated  |
| <b>Ratio:</b>                  | 2:1 (Part A:Part B)   |
| <b>Theoretical Coverage:</b>   | 10 sq meter per liter (107.6 sq feet per liter) at 100 micron (4 mil) dft |
| <b>Drying &amp; Cure Time:</b> | Hard dry 5-6 hours, full cure 7 days at 20°C (68°F)                       |
| <b>Applied Thickness:</b>      | Application dependent, overcoat within 24 hours                           |
| <b>Shelf Life:</b>             | 2 years, store between 5°C (40°F) and 32°C (90°F)                         |
| <b>Package Sizes:</b>          | 3 or 15 liter packs   |
| <b>Color:</b>                  | Translucent brown   |



### **Important Notice**

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

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**Size:** 17 x 11 folded to 8.5 x 11  
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**Printed Colors – Front:**

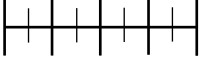


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