## 3M<sup>™</sup> Scotchkote<sup>™</sup> Urethane Coating **165PW**

### **Data Sheet and Application Guide**

#### **Product Description**

Scotchkote Urethane Coating 165PW has been specifically developed as a 100% solids protection system with a degree of flexibility for the internals of pipes and tanks for application by plural feed spray equipment or by brush. The product is specifically designed for use in contact with potable water.

#### **Product Features**

- Combines good application characteristics with excellent corrosion protection and chemical resistance.
- Designed for application in a single high build coat of up to 2mm, by plural feed hot airless spray, or by multiple brush coat application.
- Designed for use on concrete and steel surfaces.
- Adhesion Excellent to both blast cleaned steel and correctly prepared concrete.
- Corrosion Resistance Excellent even under aggressive immersion conditions.
- Chemical Resistance Excellent resistance to abrasion and mechanical damage.

#### **General Application Steps**

- 1. Remove oil, grease and loosely adhering deposits.
- 2. Abrasive blast clean steel surfaces to NACE No. 2/SSPC-SP10 Near White Metal, ISO 8501:1, Grade SA2½.
- 3. Lightly abrasive blast or scarify concrete surfaces and apply 3M<sup>™</sup> Scotchkote<sup>™</sup> Urethane Sealer 165CS.
- 4. Apply Scotchkote Urethane Coating 165PW at the specified thickness.
- 5. Allow to cure.
- 6. Visually or electrically inspect the coating for defects.
- 7. Repair all defects.

#### **Properties**

Property	Value
Colour	Grey and Cream
Ratio	3:1 By volume 3:1 By weight
Drying & Cure times at 20°C (68°F)	
Touch Dry	4 hours
Hard Dry	8 hours
Full Cure	7 days
Volume Solids	100%
Specific Gravity (Average Mixed)	1.2
Film Thickness (Typical)	Wet/Dry 1000 microns.  Note: The actual thickness to be applied should be agreed between the specifier and the manufacturer dependant on operational performance criteria and may be higher or lower than the quoted typical value.  Detailed application instructions in the form of system recommendations are available on request.
Theoretical Coverage Rate	1 sq metre per litre at 1000 microns dft.
Tensile Strength	2800 psi
Elongation	35%
Standards Met	BS6920 – WRAS Listed, UK Water Regulation 31 (4)(a)

#### **Surface Preparation**

**Steel Surfaces** - Surfaces should be abrasive blasted to a minimum NACE No. 2/SSPC-SP10 Near White Metal, ISO 8501:1, Grade SA2½. The blast profile is generally specified by the client, a typical profile is 75-100 microns. Where blast cleaning cannot be carried out the surface should be mechanically abraded to remove all loose scale and produce a surface which is clean, dry and free from rust or dust and provide a coarse profile.

**Concrete Surfaces** - Surfaces should be lightly abrasive blasted or mechanically scarified, taking care not to expose the aggregate. All dust and loose residue should then be removed and surfaces then sealed using Scotchkote Urethane Sealer 165CS.



# Application Procedures for 3M<sup>™</sup> Scotchkote<sup>™</sup> Urethane Coating 165PW

#### **Product Mixing**

The material is a two component material comprising Part A component and Part B component which must be mixed together prior to use. For hand application both components should be thoroughly stirred to incorporate any slight separation prior to mixing. Whilst continually stirring Part A, Part B component should be slowly added with mixing continuing until completely homogeneous.

After mixing fully, the material should be transferred to another container with the original container scraped clean into this new container and further mixing then carried out to ensure complete incorporation.

The mixed material must be used within 20 minutes at 20°C (68°F). This time will be reduced at higher temperatures and extended at lower temperatures.

#### **Application Procedures**

The product 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.

For application by plural feed airless spray, a material temperature of 40°C is required at the spray tip, which should be attained by heating the Base and Activator components to temperatures of 50°C and 25°C respectively.

#### **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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#### **Airless Spray**

Minimum 45: 1 pump ratio Tip Size 19-25 Thou orifice; Tip pressure typically 3000 psi

**Note:** Excessively high tip spraying pressures should be avoided. The minimum pressure at the pump conducive with good atomisation should be used.

For application by brush, good quality brushes should be used.

The product should ideally be applied in a single high build 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.

Clean all equipment immediately after use with 3M<sup>™</sup> Scotchkote<sup>™</sup> Thinners PU71.

#### **Packaging and Storage**

Part A and Part B supplied separately in 18 litre units,  $(3 \times 10^{-4})$  Part A + 1 x Part B) for spray application, 2 litre and 1 litre composite units for hand application.

Use within 2 years of date of manufacture. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F).

#### **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.

#### **Important Notice**

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