

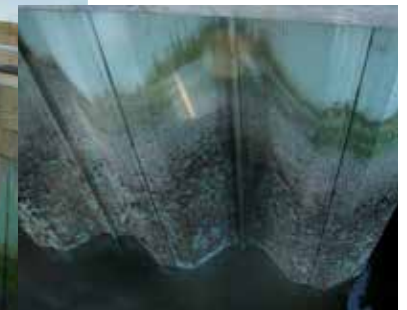


# 3M™ Scotchkote™ Coatings for Driven Piles

“Fusion bonded epoxy coatings have provided the most effective long-term way to protect our marine facilities from the harsh salt water environment,” said Paul Pottle formally with the Maine Department of Transportation.

Driven piles are a total engineering solution. The design, installation and quality assurance that are part of each driven pile combine to eliminate guesswork and produce a known, reliable and cost-effective product that can accommodate a wide variety of subsurface conditions.

Driven piles coated with 3M™ Scotchkote™ Fusion Bonded Epoxy are ideally suited for marine and other near-shore applications. This coating is very effective for not only pipe pile but also H and sheet pile components as well as for reinforcing steel. The coating system has proven to be very durable and damage to it by handling, transportation or driving is relatively easy to repair and is normally localized at the point of damage with little or no additional pull off.



These photos courtesy of Prock Marine.



## 3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 6233

The 3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 6233 is a one-part, heat curable thermosetting epoxy coating powder designed for corrosion protection.

### 3M™ Scotchkote™ Fusion-Bonded Epoxy Coating 6233 Test Data

Property	Test Description	Typical Value
Impact	ASTM G14 (modified)	
	1/8 in. (3.2 mm) thick plate	160 in lbs (18.1 J)
	3/8 in. (9.5 mm) thick plate	59 in lbs (6.7 J)
Cathodic Disbondment	CAN/CSA-Z245.20-12.8	
	48 hours, 1.5 volt, 3% NaCl 149°F/65°C	2.3 mm r
	28 day, 1.5 volt, 3% NaCl 73°F/23°C	2.5 mm r
	28 day, 1.5 volt, 3% NaCl 149°F/65°C	4.9 mm r
Penetration	ASTM G 17 -40° to 200°F/-40°C to 93°C	0
Thermal Shock	-320° to 310°F/-195° to 154°C Coated pipe	No visible effects 10 cycles

## 3M™ Scotchkote™ Fusion-Bonded Epoxy Dual-Coating System 6352

The 3M™ Scotchkote™ Fusion-Bonded Epoxy Dual-Coating System 6352 is a hard, mechanically strong top coating for all Scotchkote fusion-bonded epoxy corrosion protection coatings.

### 3M™ Scotchkote™ Fusion-Bonded Epoxy Dual-Coating 6352 Test Data

Property	Test Description	Typical Value
Impact	ASTM G14 (modified) Except with 1"x1/2"x7" bars	142 in lbs (16 J)
Hardness	ASTM D 2240-97 Shore D, run on pucks	86
	ASTM D 2583-95 Barcol, run on pucks	50
Gouge Resistance	TISI with R33 bit	203 um/8 mils gouge depth
	30 kg load	279 um/11 mils gouge depth
	40 kg load	330 um/13 mils gouge depth
	50 kg load	
Abrasion Resistance	ASTM D 4060 CS17 1000 g wt 5000 cycles	0.091 g loss
Cathodic Disbondment	28 day, 1.5 volt, 3% NaCl 176°F/80°C	4.8 mm r 226N/6233

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