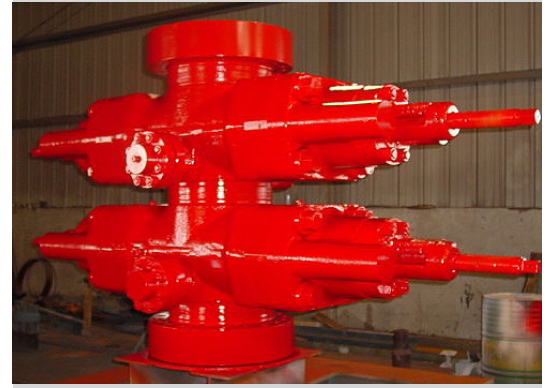


Proguard M is a two pack ceramic composite epoxy coating providing outstanding abrasion and corrosion protection to a wide variety of metal, fiberglass, reinforced plastic and concrete substrates in aggressive environments.



APPLICATION RANGE

- Offshore installations
- Wind power stations

FEATURES AND BENEFITS

- Outstanding abrasion resistance
- Excellent sea water resistance
- Good chemical resistance
- Temperature resistance up to 140°C (dry medium)

TECHNICAL INFORMATION

Color	Most RAL colours. Other tones can be matched as required
Gloss	Satin
Volume Solids	84 % (+/- 1%)
Abrasion resistance	28 mg loss (ASTM D 4060)
Seawater resistance	≥4.000 h seawater immersion test
Corrosion resistance	≥ 6.000 h salt spray (ISO7253)
Adhesion	> 20 N/mm ² (ISO 4624)
Specific Gravity (Mix)	1,64 g/cm ³

APPLICATION DATA

Application methods	Airless spray pump, Ratio 1:70 or higher. Tip size: 0.015-0.021"; Hose length max. 20m; Spray hose diameter max. 3/4"; Material must be taken up directly (without intake hose); avoid waiting time under pressure (reduction of pot life!); Roller may be used for smaller areas, brush may be used for stripe coating and touch-up.		
Mixing ratio by weight	6,5:1 by weight		
Mixing time	Component A: premix 4 minutes, Components A+B: mix 2 minutes, Mixer cycles >100 rpm		
Potlife (20°C)	2 hours (reduced at higher temperatures)		
Material spray temp	20°C recommended		
Thinner	Proguard Thinner		
Filters	Check to ensure that filters are clean.		
Number of coats	one coat, two or three passes wet-on-wet.		

Consumption	Film thickness per coat: dry	Film thickness per coat: wet	kg/m ²	m ² /kg
Contact Chesterton International technical services for specific system and application advice.	300 µm	357 µm	0.586	1.71

All above values are approximate and may be used as a guideline for specification.

SURFACE PREPARATION

All surfaces to be coated should be clean, dry and free from contamination. Prior to application, all surfaces should be assessed and treated in accordance with ISO 8504:2000. Remove weld spatter and smooth weld seams and sharp edges. Oil or grease should be removed according to SSPC-SP1 solvent cleaning.

Abrasive Blast Cleaning	For best adhesion results the surfaces should be prepared by abrasive blast cleaning to minimum SA 2,5 (ISO 8501-1:2007) or SSPC-SP10. A sharp, angular surface profile of 75-100 µm is required. Contact Chesterton International GmbH for further information. The coating system must be applied before oxidation of the steel occurs. If oxidation does occur the entire oxidized area should be reblasted to the standard specified above. Surface defects revealed by the blast cleaning process should be ground, filled or treated in the appropriate manner.
Concrete Substrates	Refer to Chesterton International GmbH for specific recommendations.

CONDITION DURING APPLICATION

Substrate temperature should be minimum 10°C and minimum 3°C above dew point. Relative humidity should be below 85%. Temperature and relative humidity must be measured in the vicinity of the substrate.

DRYING TIME

Substrate temperature	Fully cured	Gel	Service	Recoat time (wet-on-wet)	
				Minimum	Maximum
20°C	48 h	2 d	15 h	0.5 h	62 h

STORAGE AND PACKING

Preferred storage conditions are to keep the containers in a dry and cool area below 35°C provided with adequate ventilation. The containers should be sealed tightly.

Packing	1,96 kg, 4,04 kg, 7,85 kg and 19,62 kg kits incl. hardener
Shelf life	2 years

QUALITY ASSURANCE AND INSPECTION

To ensure a continuous quality of the product, the quality assurance and inspection plan of Chesterton International GmbH has to be considered. Recommendations for qualified test control units are also available.

HEALTH AND SAFETY

Observe the precautionary notices on the container label, and read the Material Safety Data Sheet before use. The product is intended for use by properly qualified professional applicators in industrial conditions. The product is flammable and should be kept away from sparks, open flames, and other sources of ignition. Smoking is prohibited in the application area. Wear suitable respiratory equipment and apply in well ventilated areas. Avoid contact with skin and eyes.

DISCLAIMER

All technical information in this Product Data Sheet is signified as material description and based on laboratory tests and practical experiences under normal conditions. During individual use, actual measured data may vary due to circumstances beyond our control. In particular, the recommendations regarding the application and use require the proper storage and treatment of our products. Due to differences in materials, substrates and real site conditions Chesterton International GmbH does not assume any warranty or liability for application results or fitness for a particular purpose, of any legal relationship whatsoever, neither from this information, nor from any given recommendations, or from any other oral advice. The user of the product must check the product's suitability for the intended application and purpose. Chesterton International reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our general terms and conditions of sale and delivery. The most recent issue of the Product Data Sheet has to be considered, please ask always for the current version.