

ARMOURGUARD S

EPOXY-CERAMIC STEEL COATING SYSTEM

ARMOURGUARD S is our original grade of ARMOURGUARD. It is intended for use on marine and industrial steelwork above and below the waterline where the best possible protection from abrasion and mechanical damage is required combined with maximum corrosion protection.

ARMOURGUARD S is a two part, low solvent epoxy-ceramic coating that contains 70% of solid ceramic micro-spheres. Also included in the formulation are a carefully selected blend of additives to enhance adhesion to steel, other non porous substrates and existing coatings.

- **Tremendous abrasion resistance**
- **Tremendous adhesion to the substrate**
- **Virtually impervious to moisture vapour**
- **Surface tolerant & can be applied to damp substrates**

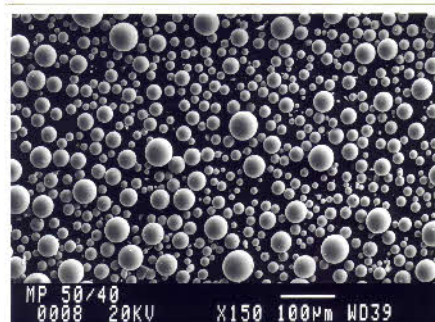
The cured coating contains the maximum possible amount of micro-spheres which form a composite with far superior adhesion, abrasion and corrosion resistance than normal epoxy coatings. ARMOURGUARD S is virtually impervious to water, water vapour and oxygen. Its unique formulation eliminates the requirement for separate primers and undercoats because ARMOURGUARD's superb barrier properties prevent oxygen and moisture reaching the substrate.

When applied outside it should be protected from strong sunlight by one coat of polyurethane gloss.

ARMOURGUARD S should preferably be applied to shot or hydro-blasted steel that is free from traces of soluble salts.

ARMOURGUARD S can be applied to damp substrates without detriment to the durability of the coating. Puddles and large drops of water should be mopped up or blown away with compressed air before application of the coating. ARMOURGUARD can also be applied to sound old epoxy coatings provided they are clean and have been abraded.

ARMOURGUARD S is available in two re activities to allow curing at temperatures down to 5⁰C. It is cured with SYNAMIN hardeners which are available in three re activities to suit the ambient temperature. The most suitable hardener for the application conditions will be supplied to give a pot life is 1½ to 2½ hours at the temperatures shown in the table below.



The perfectly spherical shape of the ceramic micro-spheres allows them to pack tightly together thus forming a cured coating with unequalled abrasion resistance

[Please visit our web site at www.reactiveresins.com for details of our other products. They include resins and coatings for marine and industrial applications.](http://www.reactiveresins.com)

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ARMOURGUARD can be applied with high pressure airless or conventional spray equipment supplied with material from a pressure pot. For maximum protection three coats should be applied to a dry film thickness of 300 microns. ARMOURGUARD can also be applied to small areas by roller or brush.

A dry film thickness of 100 micron will allow a coverage of approximately 8m² per litre.

ARMOURGUARD is available in light and mid grey, light blue, black and white. Other

SPECIFICATION	
Solids content	94%
Ceramic content in dry film	70%
Weight	1.66kg/litre
Adhesion ASTM D4541-95	19 N.mm ²
Abrasion resistance ASTM D4060-95	54 mg/1000 cycles. CS10 wheel with 1kg load
Solvent	SYNSOL 200 spray or SYNSOL 300 fast spray solvent

OVER-COATING TIMES						
TEMPERATURE °C	5 TO 15		15 to 25		25 +	
HARDENER	SYNTAC 1045		SYNTAC 1043		SYNTAC 1040	
	Min	Max	Min	Max	Min	Max
ARMOURGUARD S	15 hours	2½ days	12 hours	2 days	6 hours	36 hours