

ARMOURGUARD BT

EPOXY-CERAMIC BALLAST TANK COATING SYSTEM

ARMOURGUARD BT has been developed for use in ballast tanks where high flexibility is required to cope with flexing, expansion and contraction caused by extremes of temperature. Its unique formulation eliminates the requirement for separate primers and undercoats because ARMOURGUARD BT's superb barrier properties prevent oxygen and moisture reaching the surface of the substrate.

- **Excellent adhesion to the substrate**
- **Virtually impervious to moisture vapour**
- **Surface tolerant & can be applied to damp substrates**
- **Totally solvent free**

ARMOURGUARD BT is a two-part, solvent free epoxy co-polymer coating containing 70% of solid ceramic micro-spheres. The cured coating contains the maximum possible amount of ceramic, which forms a flexible composite coating with far superior adhesion, abrasion and corrosion resistance than normal epoxy coatings.

ARMOURGUARD BT is virtually impervious to water, water vapour and oxygen. ARMOURGUARD BT also contains a carefully selected blend of additives to enhance adhesion to steel and existing coatings.

ARMOURGUARD BT should preferably be applied to shot or hydro-blasted steel that is free from traces of soluble salts. ARMOURGUARD BT 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 BT can also be applied to most sound old epoxy coatings provided they are clean and free from contamination.

ARMOURGUARD BT can be applied in temperatures between 5°C and 50°C. It is cured with SYNAMIN 1040 series hardeners which are available in three reactivities to suit the ambient temperature. The most suitable hardener for the application conditions will be supplied to give a pot life of 1½ to 2½ hours. ARMOURGUARD BT can be over-coated as soon as it has cured sufficiently to accept the next coat but must be over-coated within the time shown on the table below.

ARMOURGUARD BT can be applied with high pressure airless spray equipment, by roller or by brush. For maximum protection three coats should be applied to a dry film thickness of 300 microns.

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

ARMOURGUARD BT is available in light and mid grey, and off white. Other colours are available to order.

[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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SPECIFICATION	
Solids content	100%
Ceramic content in dry film	70%
Weight	1.66kg/litre
Adhesion ASTM D4541-95	18.9 N.mm ²
Abrasion resistance ASTM D4060-95	65.2 mg/1000 cycles. CS10 wheel with 1kg load
Solvent	None required

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 BT	3 hours	2½ days	3 hours	2 days	2 hours	36 hours