

ARMOURGUARD PW

EPOXY-CERAMIC POTABLE WATER TANK COATING

ARMOURGUARD PW has been developed for coating potable water tanks. It is sufficiently flexible to cope with the expansion and contraction of steel tanks caused by extremes of temperature. Its resin and hardener components are formulated with materials that are approved for contact with potable water. Its unique formulation eliminates the requirement for separate primers and undercoats because ARMOURGUARD PW'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 PW is a two-part, solvent free epoxy-novolac 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 PW is virtually impervious to water, water vapour and oxygen. ARMOURGUARD PW also contains a carefully selected blend of additives to enhance adhesion to steel and existing coatings.

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

ARMOURGUARD PW can be applied in temperatures between 12°C and 40°C. It is cured with SYNAMIN 1200 series hardeners which are available in two reactivities to suit the ambient temperature. The most suitable hardener for the application conditions will be supplied to give a pot life of 1 to 1½ hours. ARMOURGUARD PW 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 PW 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 120 microns will allow a coverage of approximately 8m² per litre.

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

SPECIFICATION	
Solids content	100%
Ceramic content in dry film	70%
Weight	1.66kg/litre
Adhesion ASTM D4541-95	18.9 N.mm ²
Solvent	None required

OVER-COATING TIMES				
TEMPERATURE °C	12 to 25		25 +	
HARDENER	SYNTAC 1205		SYNTAC 1200	
	Min	Max	Min	Max
ARMOURGUARD PW	2 hours	2 days	2 hours	36 hours

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[They include resins and coatings for marine and industrial applications.](#)