Armourguard PW

EPOXY-CERAMIC POTABLE WATER TANK COATING

ARMOURGUARD PW has been developed for coating potable water tanks, fish tanks and water treatment systems. 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. ARMOURGUARD PW's superb barrier properties prevent oxygen and moisture reaching the surface of the substrate.

- **Non toxic, safe to use in potable water and fish tanks**
- **Excellent adhesion to the substrate**
- **Virtually impervious to moisture vapour**
- **Ceramic content makes it resistant to erosion and abrasion.**
- **Can be applied directly to clean, abraded GRP, existing coatings and bitumen.**
- **Totally solvent free**

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

ARMOURGUARD PW applied to salmon smolt tanks in Scotland.

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 existing coatings.

ARMOURGUARD PW should be applied surfaces that have been suitably primed. Steel should be primed with one coat of ARMOURGUARD ST, surface tolerant primer and concrete with CONSEAL P.

ARMOURGUARD PW can also be applied to clean grp, most sound old epoxy and bitumen coatings provided they are clean and free from contamination.

MIXING ARMOURGUARD PW resin should be pre-mixed in the tin before the hardener is added, preferably with an electric mixer. After the hardener has been added to the tin mix for at least 2-3 minutes, pay particular attention to the sides and bottom corners of the tin to ensure that all materials are thoroughly incorporated.

ARMOURGUARD PW in a waste water treatment plant at a chocolate factory

When mixed, the resin and hardener will start to react, generating heat. This will then accelerate the reaction. The greater the mass of epoxy, the more heat will be generated and the shorter the pot life. If you require a smaller quantity or are unable to use all of the material within its pot life, weigh out resin and hardener in the proportions specified on the label using digital kitchen scales.

ARMOURGUARD PW can be applied in temperatures between 10°C and 40°C. It is cured with SYNAMIN 1058 hardener which has a pot life of approximately 35 minutes at 20°C.

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 400 microns. A dry film thickness of 150 microns will allow a coverage of approximately 6.5m² per litre.

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ARMOURGUARD PW must be allowed to cure for the times stated below before commissioning. Preferably the tank should be filled or rinsed with fresh water and drained before filling.

ARMOURGUARD PW OVER-COATING AND CURE TIMES							
	OVER-COATING TIMES				CURING TIME		
TEMPERATURE °C	10 to 20		25 +		5 - 10	10 - 20	25 +
	Min	Max	Min	Max	Days	Days	Days
ARMOURGUARD PW	4 hours	2 days	2 hours	36 hours	10	7	4

ARMOURGUARD PW SPECIFICATION	
Solids content	100%
Mix ratio	See label on tin
Ceramic content in dry film	70%
Weight	1.66kg/litre
Adhesion ASTM D4541-95	18.9 N.mm²
Solvent	None required

ARMOURGUARD PW is available in mid blue but other colours can be made to order in quantities over 100 litres.

Please visit our web site at www.xymertec.com for details of our other products.
They include resins and coatings for marine, industrial and flooring applications.

COVERAGE

It is the applicators responsibility to ensure that the correct coverage is achieved.

We recommend that the area that should be covered by one pack of coating is marked out. Adjust the application rate to ensure that the marked area is covered by the entire contents of a pack. Porous or rough substrates will require more product than regular substrates.

HEALTH & SAFETY

Please see the Safety Data Sheet for full information. All users should ensure appropriate protective measures are adhered to when applying our products.

DISCLAIMER

Customers are advised to thoroughly read and adhere to the instructions provided to ensure the products' optimum finish and performance. All information is based on results gained from experience and tests and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Any deviation by the user to these instructions may affect the products performance and is therefore not advised. In this circumstance, Xymertec Ltd will not be held responsible and will be unable to offer any product replacement. Users should always carry out sufficient tests to establish the suitability of any products for their intended applications.

We aim to ensure consistency of colour in production (where applicable), however slight variations in shade may occur from batch to batch.

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