Armaline® Epoxy Coatings

Chemical resistant barrier coatings

Mar 10

ARMATEC

ARMALINE® COATINGS

Armaline® epoxy coatings feature a chemical resistant epoxy resin base with "Barrier Technology" to protect concrete and steel surfaces from aggressive chemicals. This can result in a coating life in the range of 10 to 20 years, even in immersion service.

• Armaline® 1720 & 1730 .... 1mm

Armaline® 1720 has excellent all round chemical resistance to a wide range of chemicals. Armaline® 1730 handles CIP chemicals used in the food industry and resists spillages of 98% sulphuric acid. Good moisture tolerance and will cure underwater. These flake filled epoxy coatings are applied to concrete and steel in one or two coats by brush or spray to a thickness of up to 1 mm. Used in immersion and non-immersion duties.

• Armaline® 3720 & 3730 .... 3mm

Armaline® 3720 has excellent all round chemical resistance to a wide range of chemicals. Armaline® 3730 handles CIP chemicals used in the food industry and resists spillages of 98% sulphuric acid. Good moisture tolerance and will continue to cure even if submerged after application. These general purpose glass fibre and flake reinforced epoxy coatings are applied to concrete and steel in one trowel coat to a nominal thickness of 3 mm. Used in immersion and non-immersion duties. The finished surface is non-slip, abrasion resistant and physically robust. The one coat application and moisture tolerance make it very useful for one step concrete repair and protection, especially in tight shutdown schedules. A layer of glass fibre reinforcing can be included for additional strength.

• Armaline® 5720 & 5730 .... 5mm

Armaline® 5720 has excellent all round chemical resistance to a wide range of chemicals. Armaline® 5730 handles CIP chemicals used in the food industry and resists spillages of 98% sulphuric acid. Good moisture tolerance and will continue to cure even if submerged after application. These silica filled epoxy coatings are trowel applied to concrete and steel to a thickness of 5 mm plus. Used in immersion and non-immersion duties. The finished surface is non-slip, abrasion resistant and physically robust. Ideal as a concrete repair material where concrete is in poor condition.

CHEMICAL RESISTANT

All Armaline® epoxy coatings give excellent resistance to water, 70% sulphuric acid, 50% sodium hydroxide, 10% sodium hypochlorite and dilute nitric acid. The most outstanding chemical resistance is given by Armaline® 1730, 3730 and 5730 which can resist spills of concentrated sulphuric acid. Armaline® epoxy coatings are ideal for use in situations where there is a range of chemicals encountered.

TEMPERATURE RESISTANT

All Armaline® epoxy coatings give excellent resistance to elevated temperatures. In particular Armaline® 1730, 3730 and 5730 have the highest temperature resistance, and are often used when liquid temperatures are approaching 100ºC.

BARRIER TECHNOLOGY

Armaline® epoxy coatings provide resistance to the passage of moisture and chemicals with "Barrier Technology". An armour like barrier of fillers and flakes greatly increases the permeation resistance of the coatings, and hence its service life.

MOISTURE TOLERANT

Armaline® epoxy coatings have a good moisture tolerance and will bond to damp concrete and steel substrates. These coatings will continue to cure even if submerged after application. These features make the coatings easy to apply in in-situ applications where it is not always possible to have the substrates 100% dry, and is ideal for maintenance and shut-down situations with tight timetables.

Armaline® 1720 coating on waste water structure.

Armaline® 1730 coating in CIP dairy drain manhole.

ARMATEC Environmental Ltd

ISO 9001 BUREAU VERITAS Certification

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• Armaline® Gripcoat

Non-slip safety floor coating that is a two component, modified epoxy coating applied by brush or roller, and with grit broadcast over immediately after the coating is applied. Gripcoat is specially formulated so it can be applied to wet and dry concrete floors to provide a non-slip coating for safety purposes. Grit is available from ARMATEC or you can supply your own to suit.

• Armaline® Chestline

Heavy duty epoxy tank lining reinforced with a glass fabric and applied to a nominal 2.5 mm thickness. The finished surface is smooth for ease of cleaning and minimum product hang up. Developed especially for lining stock chests in pulp and paper plants. The rapid application and moisture tolerance minimises shut down times.

• Armaline® EP7 Primer

Moisture tolerant epoxy primer with outstanding ability to bond to damp and wet substrates. Can be used with the Armaline® range of epoxy coatings for improved adhesion or to hold a prepared substrate ready for coating. It can also be used as a primer for other epoxy coatings.

COMPATIBLE WITH ARMAGROUT

All Armaline® epoxy coatings are compatible with ARMATEC's ArmaGrout epoxy foundation grout. Steel machinery bases to be grouted can be pre-coated with Armaline® epoxy coatings and the concrete foundation and surrounds can be coated with Armaline® epoxy coatings after the ArmaGrout has been placed.

SPECIAL FORMULATIONS

Enquiries for coatings in unique or difficult applications are welcomed. ARMATEC can develop and test special formulations in a very short time based on our extensive experience with handling very corrosive chemicals in industrial applications.

MORE INFORMATION

For more information on a specific Armaline® epoxy coating system, please contact ARMATEC and ask for detailed bulletins. We will be pleased to offer our advice on the selection of the coating best suited to your application.

PRODUCT AVAILABILITY

Armaline® epoxy coatings are available in New Zealand on short lead times as all materials are held in stock in our New Plymouth factory.

Armaline® Gripcoat on walkway through wet area in Pulp and Paper Plant for personnel safety reasons.

Armaline® Chestline in wire pit under paper machine applied in tight shutdown period. The concrete was not able to be 100% dried and there were frequent water spills.

Armaline® 1730 protecting bund from spills of 98% sulphuric acid. The variagated and dark colour of the coating in the foreground shows that it has already been exposed to a substantial spill, but remains intact and has protected the concrete bund structure.

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