



## TECHNICAL BULLETIN – TB297

### CHEMICAL RESISTANCE OF ARDEX WPM822, WPM823 AND WPM813

3<sup>rd</sup> September 2024

#### INTRODUCTION & SCOPE

ARDEX supplies a range of urethanes that can be used in systems to create a waterproof and trafficable coating. This bulletin deals explicitly with the chemical resistance of three of these products: the ARDEX WPM 822, ARDEX WPM 823, and ARDEX WPM 813.

#### DEFINITIONS

**ARDEX WPM822** is a two-part, UV-stable topcoat suitable for pedestrian traffic. It is used in conjunction with ARDEX WPM812 which is a waterproof membrane.

**ARDEX WPM823** is a two-part, UV-stable topcoat suitable for vehicular traffic. It is used in conjunction with ARDEX WPM813 waterproof membrane.

**ARDEX WPM 813** is a two-part, tough, and durable waterproof membrane.

On the next page is a guide to the chemical resistance of the above three products. Please note that it is a guide only and should not be used for specifications. Factors such as the time before it is in full service, the service temperature, and the degree of traffic may impact a recommendation. The chemicals in the table are in concentrated form unless otherwise stipulated. A service temperature of 23°C is assumed for this data. When considering a particular application, please contact ARDEX Technical Services.

The following terms are used in the table on the next page.

|                      |   |  |
|----------------------|---|--|
| Fully Resistant      | → | Recommended for continuous exposure                  |
| Resistant            | → | General maintenance/housekeeping is required         |
| Short-term resistant | → | Spill needs to be cleaned up in 2-4 hours            |
| Not Resistant        | → | It is not recommended to be exposed to this chemical |



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| <b>Liquid</b>            | <b>Classification</b> |
|--------------------------|-----------------------|
| Ammonia (10%)            | Resistant             |
| Ammonium Carbonate       | Not Resistant         |
| Ammonium Chloride        | Fully Resistant       |
| Brake Fluid ATE          | Short-term Resistant  |
| Calcium Chloride (40%)   | Fully Resistant       |
| Chlorine                 | Resistant             |
| Cutting Oil              | Short-term Resistant  |
| Diesel Oil               | Fully Resistant       |
| Ethanol                  | Short-term Resistant  |
| Ethyl Alcohol 100%       | Short-term Resistant  |
| Ethyl ether              | Short-term Resistant  |
| Glycerine                | Resistant             |
| Hydraulic Oil SAE90      | Short-term Resistant  |
| Hydrochloric Acid        | Resistant             |
| Jet Fuel                 | Resistant             |
| Kerosene                 | Resistant             |
| Magnesium Chloride (30%) | Fully Resistant       |
| Methanol (<5%)           | Short-term Resistant  |
| Olive Oil                | Resistant             |
| Paraffin                 | Resistant             |
| Petroleum                | Fully Resistant       |
| Petroleum ether          | Resistant             |
| Phosphoric acid (50%)    | Not Resistant         |
| Potash lye (10%)         | Resistant             |
| Potassium nitrate        | Fully Resistant       |
| Sea water                | Resistant             |
| Sodium chloride (10%)    | Fully Resistant       |
| Sulphuric acid (30%)     | Short term resistant  |



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**IMPORTANT**

This Technical Bulletin provides guideline information only and is not intended to be interpreted as a general specification for the application/installation of the products described. Since each project potentially differs in exposure/condition, specific recommendations may vary from the information contained herein. For recommendations for specific applications/installations, contact your nearest ARDEX Australia Office.

**DISCLAIMER**

The information presented in this Technical Bulletin is to the best of our knowledge true and accurate. No warranty is implied or given as to its completeness or accuracy in describing the performance or suitability of a product for a particular application. Users are asked to check that the literature in their possession is the latest issue.

**REASON FOR REVISION-ISSUER**

Change of slogan and address

**DOCUMENT REVIEW REQUIRED**

36 months or whenever third-party suppliers change their recommendations.

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