

Epoxy Novolac

PRODUCT DESCRIPTION	Devmat 100 is a thick-film, 100% solids reinforced, proprietary formulated epoxy-based internal lining.							
INTENDED USES	<p>Designed for corrosion control, restoration and leak prevention of petroleum storage tank bottoms and pipe externals. Devmat 100 is flexibilized to reduce coating stress resulting from mechanical and physical forces exerted on structures and may also be used as a flexible base coat for chemical storage tank bottoms and for concrete containment areas.</p> <p>For use on steel and fiberglass storage tank bottoms, large diameter bulk petroleum tank bottoms, riveted or bolted steel tanks and vessels, chemical process floors and concrete containment areas, and pipe externals.</p>							
PRACTICAL INFORMATION FOR DEVMAT 100	Colour	Grey						
	Gloss Level	Gloss						
	Volume Solids	100%						
	Typical Thickness	375-1000 microns (15-40 mils) dry equivalent to 375-1000 microns (15-40 mils) wet						
	Theoretical Coverage	1.50 m ² /litre at 688 microns d.f.t and stated volume solids 58 sq.ft/US gallon at 27.5 mils d.f.t and stated volume solids						
	Practical Coverage	Allow appropriate loss factors						
	Method of Application	Airless Spray, Roller, Air Spray, Brush						
	Drying Time	Overcoating Interval with recommended topcoats						
	Temperature	Touch Dry	Hard Dry					
	25°C (77°F)	*1	16 hours	<table border="1"> <thead> <tr> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>10 hours</td> <td>16 hours</td> </tr> </tbody> </table>	Minimum	Maximum	10 hours	16 hours
Minimum	Maximum							
10 hours	16 hours							
	1 * not applicable							
REGULATORY DATA	Flash Point (Typical)	Part A 93°C (199°F); Mixed 93°C (199°F)						
	Product Weight	1.32 kg/l (11.0 lb/gal)						
	VOC	0.08 lb/gal (10 g/l) EPA Method 24						
	See Product Characteristics section for further details							

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SURFACE PREPARATION

Surfaces must be dry, clean, free of oil, grease, form release agents, curing compounds, laitance, other foreign matter and be structurally sound. Remove all loose paint, mortar spatter, mill scale, and rust.

New Surfaces:

Steel

New steel surfaces should be initially abrasive blasted to near-white metal surface cleanliness in accordance with SSPC-SP10 or ISO8501-1:2007 Sa2.5. Blast profile on steel should be at least 2.5 mils (63 microns) in depth and be of a sharp, jagged nature as opposed to a “peen” pattern (typically obtained in shot blasting).

Concrete Floors, Poured Concrete:

Cure at least 30 days. Acid etch or abrasive blast slick, glazed concrete or concrete with laitance. Follow acid manufacturer's application and safety instructions. Rinse thoroughly with water and allow to dry. Remove loose aggregate.

Previously Painted Surfaces

Devmat 100 may not be applied to existing coatings. All coatings must be removed by abrasive blast cleaning to the standard required for new surfaces.

APPLICATION

Mixing	Material is supplied in two containers as a unit. Once the unit has been mixed it must be used within the working pot life specified. (1) Agitate Base (Part A) with a power agitator. (2) Combine entire contents of Curing Agent (Part B) with Base (Part A) and mix thoroughly with power agitator.	
Mix Ratio	2 part(s) : 1 part(s) by volume	
Working Pot Life	25°C (77°F) 22 minutes	
Plural Component Airless Spray	Recommended	See Product Characteristics section for further details
Thinner	Do not thin	
Cleaner	International GTA415	In the SCAQMD region, use T-0 Thinner or other solvent in compliance with local VOC and air quality regulations.
Work Stoppages	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with International GTA415 (outside of SCAQMD) or T-0 Thinner (inside SCAQMD). Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed units.	
Clean Up	Clean all equipment immediately after use with International GTA415 (outside of SCAQMD) or T-0 thinner (inside SCAQMD). It is good working practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, including any delays. All surplus material and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.	

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PRODUCT CHARACTERISTICS

Advantages:

- Resistant to all types of crude oil and refined petroleum products
- Flexible to reduce coating stress caused by “oil canning” effects
- High-build, easy to install monolithic application process (15-40 mils DFT)
- Excellent adhesion to steel, concrete and fiberglass substrates
- Low cured shrinkage
- VOC compliant

For plural component airless spray application, best results will be achieved when both components of the product are heated to a maximum of 54°C (130°F), prior to application.

It is very important for the safety of the applicator and the proper performance of Devmat 100 that good ventilation be provided to all portions of the enclosed area. It is equally important to bring into the enclosed area dry, fresh air to remove all solvent vapors. Since all solvent vapors are heavier than air, ventilation ducts should reach to the lowest portions of the enclosed areas as well as into any structural pockets. Ventilation should be provided throughout the cure period to ensure all the solvents are removed from the coating.

Note: VOC values are typical and are provided for guidance purpose only. These may be subject to variation depending on factors such as differences in colour and normal manufacturing tolerances.

SYSTEMS COMPATIBILITY

In most circumstances this product is applied direct to the substrate and is not overcoated.

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ADDITIONAL INFORMATION

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available at www.international-pc.com:

- Definitions & Abbreviations
- Surface Preparation
- Paint Application
- Theoretical & Practical Coverage

Individual copies of these information sections are available upon request.

SAFETY PRECAUTIONS

This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the Material Safety Data Sheet and the container(s), and should not be used without reference to the Material Safety Data Sheet (MSDS) which International Protective Coatings has provided to its customers.

All work involving the application and use of this product should be performed in compliance with all relevant national, Health, Safety & Environmental standards and regulations.

In the event welding or flame cutting is performed on metal coated with this product, dust and fumes will be emitted which will require the use of appropriate personal protective equipment and adequate local exhaust ventilation.

If in doubt regarding the suitability of use of this product, consult International Protective Coatings for further advice.

PACK SIZE	Unit Size	Part A		Part B	
		Vol	Pack	Vol	Pack
	55 US gal	53 US gal	55 US gal	53 US gal	55 US gal
For availability of other pack sizes, contact International Protective Coatings.					
SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A		Part B	
	55 US gal	581.9 lb		581.9 lb	
	5 US gal	58.2 lb		58.2 lb	
STORAGE	Shelf Life	12 months minimum at 25°C (77°F). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.			

Important Note

The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. We hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. All products supplied and technical advice given are subject to our Conditions of Sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is liable to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to check with their local representative that this data sheet is current prior to using the product.

This Technical Data Sheet is available on our website at www.international-marine.com or www.international-pc.com, and should be the same as this document. Should there be any discrepancies between this document and the version of the Technical Data Sheet that appears on the website, then the version on the website will take precedence.

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