

Epoxy

PRODUCT DESCRIPTION

A 100% solids, two-component epoxy coating for tank lining and repair of pitted steel surfaces.

INTENDED USES

Ideal for repair of tank bottoms, including potable water tanks, fuel tanks and selected chemical tanks. Also used for repair of pitted steel surfaces as well as a chemical resistant coating for concrete floors and waste troughs. Devran 133 is often used in sewage or waste treatment plants and containment areas.

NSF certification is for tanks equal to or greater than 20,000 gallons. See listing at www.NSF.org "Drinking Water System Components" for application and cure.



Certified to NSF/ANSI 61

PRACTICAL INFORMATION FOR DEVRAN 133

Color	Off White, Oxide Red
Gloss Level	Gloss
Volume Solids	100%
Typical Thickness	8-12 mils (200-300 microns) dry equivalent to 8-12 mils (200-300 microns) wet
Theoretical Coverage	160 sq.ft/US gallon at 10 mils d.f.t and stated volume solids 4 m ² /liter at 250 microns d.f.t and stated volume solids
Practical Coverage	Allow appropriate loss factors
Method of Application	Airless Spray, Squeegee, Plural Component Airless Spray

Drying Time

Temperature	Touch Dry	Hard Dry	Overcoating Interval with recommended topcoats	
			Minimum	Maximum
50°F (10°C)	*1	32 hours	26 hours	72 hours
68°F (20°C)	*1	22 hours	14 hours	72 hours
77°F (25°C)	*1	17 hours	10 hours	72 hours

*1 not applicable

REGULATORY DATA

Flash Point (Typical)	Part A 199°F (93°C); Part B 199°F (93°C); Mixed 199°F (93°C)		
Product Weight	14.9 lb/gal (1.79 kg/l)		
VOC	0.59 lb/gal (71 g/l)	EPA Method 24	

See Product Characteristics section for further details

Protective Coatings

Epoxy

SURFACE PREPARATION

All surfaces must be sound, dry, clean, free of oil, grease, dirt, mildew, curing compounds, loose and flaking paint and other foreign substances.

New Surfaces:

Abrasive blast to near-white metal surface cleanliness in accordance with SSPC-SP10 or ISO8501-1:2007 Sa2.5. Blast profile on steel should be 1½ - 2½ mils (38 - 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. Prime with Pre-Prime 167 for non-NSF applications or Devran 133.

Previously Painted Surfaces

Devran 133 may not be applied to existing coatings. All coatings should be removed and substrates treated as for New Surfaces.

APPLICATION

Mixing	Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. 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 Initiator (Part B) with Base (Part A) and mix thoroughly with power agitator.	
Mix Ratio	4 part(s) : 1 part(s) by volume		
Working Pot Life	50°F (10°C)	68°F (20°C)	77°F (25°C)
	2 hours	2 hours	2 hours
Plural component airless spray	Recommended	See Product Characteristics section for further details	
Airless Spray	Recommended	Tip Range 23-29 thou (0.58-0.73 mm) Total output fluid pressure at spray tip not less than 2944 psi (207 kg/cm ²) See Product Characteristics section for further details	
Thinner	Do not thin		
Cleaner	T-10 Thinner	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 T-10 Thinner. 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 T-10 Thinner. 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.		

Epoxy

PRODUCT CHARACTERISTICS

Advantages:

- Excellent chemical, solvent and water resistance
- Can be applied up to 1/2" thick on horizontal surfaces (except for potable water service)

In common with all epoxies, Devran 133 will chalk and discolor on exterior exposure. However, these phenomena are not detrimental to anti-corrosive performance.

Apply in good weather, when air and surface temperatures are above 50°F (10°C). Application below this temperature may compromise chemical resistance.

Optimum application properties and working life of the coating are obtained when the mixed components are at 77°F (25°C) and every effort should be made to keep material to this temperature.

Devran 133 can be applied to floors and decks with a spreader, squeegee or roller. If air entrapment is encountered, use a "porcupine" or another type of air release roller tool.

Where plural component airless spray equipment is used, a 45 to 1 pump equipped with a 1:1 cylinder pump should be used. All plural component applications require a volumetric check of the mix ratio.

Where airless spray equipment is used, a 45:1 pump or larger is recommended. Ideally, fluid hoses should not be less than 3/8" ID and not longer than 50 feet to obtain optimum results.

Although Devran 133 is solventless, good ventilation with dry air is required for the protection of the applicator, to prevent condensation and to obtain proper coating performance. Ventilation should be maintained throughout the cure period. Be sure the air in the lowest areas is constantly replaced with fresh, dry air. Longer curing times with ventilation are required if temperatures are lower than 77°F (25°C).

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 color and normal manufacturing tolerances.

SYSTEMS COMPATIBILITY

Devran 133 will normally be applied direct to metal and is not normally overcoated with any product other than itself.

Epoxy

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
	5 US gal	4 US gal	6 US gal	1 US gal	1 US gal
For availability of other pack sizes contact International Protective Coatings					
SHIPPING WEIGHT (TYPICAL)	Unit Size	Part A		Part B	
		63.9 lb		16.1 lb	
STORAGE	Shelf Life	24 months minimum at 77°F (25°C). Subject to re-inspection thereafter. Store in dry, shaded conditions away from sources of heat and ignition.			

Disclaimer

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.

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