

## PRODUCT DESCRIPTION

EnduraTred 1191 is a thick-film, 100% solids, proprietary formulated epoxy-based rubberized compound designed to protect surfaces from heavy impact. EnduraTred 1191 may also be used on floors in areas where protection is needed for employees standing for long periods of time. EnduraTred 1191 is trowel-applied from 125-2000 mils DFT depending on the level of protection desired, and is flexibilized to reduce coating stress resulting from mechanical and physical forces exerted on the substrate. The rubber is functionally treated to react into the system to prevent pre-mature failure. EnduraTred 1191 is a two-component system; Resin and Hardener.

## TYPICAL USES

- Inmate weightlifting areas
- Process floors & concrete areas
- Pulp and Paper Services
- Loading Docks

## BENEFITS

- Fast Turnaround time (Cures in 12-36 hours at ambient temperature)
- Superior wide range chemical resistance
- High abrasion resistance
- Flexible to reduce coating stress caused by substrate movement and impact
- High-build, monolithic application process (125-2000 mils DFT) (1/8 inch – 2 inches)
- Excellent adhesion to primed steel, concrete and fiberglass substrates
- Low cured shrinkage
- VOC compliant

## APPLICATION DATA SUMMARY

See Application Instructions for complete information on surface preparation, equipment, environmental conditions, application procedures, and safety precautions. For conditions outside the specifications or limitations described, contact Wolverine Coatings Corporation for details.

## SURFACE PREPARATION

All surfaces shall be clean and dry, free of dust, dirt, oil or any other foreign matter. Steel surfaces shall be abrasive blasted to SSPC SP-5, or NACE #1 "white metal" finish with a minimum 2.5 mil surface profile. Concrete surfaces shall be abrasive blasted to remove all laitence and other surface contaminants. A suitable primer should be used. For additional information regarding surface preparation specifications and techniques, please contact our technical services department.

## SAFETY PRECAUTIONS

Read the Safety Data sheet carefully before use. Safety precautions in the SDS should be carefully followed during storage, handling and use. Improper use and handling can be hazardous to health and cause fire or explosion. For further information, please refer to our "Epoxy Resin Safety Handling Guide".

## APPLICATION DATA

Method:	For standard application and repairs, a trowel may be used.
Minimum Temperature of Application (Air):	45 °F; otherwise force curing is required.
Thinning:	Not recommended or desired.

## TECHNICAL DATA

Weight, lbs/gal:	8.97+/- 0.5
Recommended Thickness, mils DFT:	125-2000
Theoretical Coverage, mil sq.ft./gal:	1604 (depends on porosity)
VOC Content (mixed), g/l:	<100
Flash Point (mixed), °F:	>200
Pot Life (@ 77°F):	15 Mins
Color(s):	Black
Coverage to Achieve Dry Film Thickness (SqFt/Gal): (Actual – allows for approximate loss of 10%)	125 mils: 11.51 SqFt/Gal. 250 mils: 5.75 SqFt/Gal. 500 mils: 2.88 SqFt/Gal. 1000 mils: 1.44 SqFt/Gal.
Drying Time (@ 77°F and 50% relative humidity):	To Touch: 2 Hours To Handle: 5 Hours To Recoat: 2 - 5 Hours
Cure Time* to Achieve a Minimum Barcol hardness of 65 (@ 77°F and 50% relative humidity)	
For Immersion Service:	8 - 10 Hours (Force curing is required for low temperature applications to expedite curing process.)
Pre-Heating:	If preheating is required, heat each component to 95-120 °F prior to mixing.
Mixing:	Mechanically pre-mix each component; add the hardener into the resin and then mix the combined compound at 400-600 rpm for 3 to 4 minutes.

## SHIPPING DATA

Packaging:	1 Gallon Kits, 3 Gallon Kits, 15 Gallon Kits, 150 Gallon Kits
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## STORAGE

Shelf Life (indoors @ 40-100°F):	1 year from date of manufacture (factory sealed)
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Do not open containers until ready to use. Keep sealed containers in a cool, dry place. Avoid contact with sources of extreme hot or cold temperatures as well as direct sunlight. Containers should be stored at 65°F to 95°F. Shelf life is one (1) year if exposed to the above conditions.

## SAFETY

For your safety, all required personal protection equipment should be used when operating machinery or handling chemicals. Concrete dust is a source of silica particles and other hazardous materials that can cause silicosis and other illnesses. Proper safety equipment and methods are the responsibility of the installation company, general contractor, and/or facility owner.

## WARRANTY

Wolverine Coatings Corporation warrants its products to be free from defects in material and workmanship. Wolverine Coatings Corporation's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at Wolverine Coatings option, to either replacement of products not conforming to this Warranty or credit to the Buyer's account in the invoiced amount of the nonconforming products. Any claim under this warranty must be made by the Buyer to Wolverine Coatings in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the ship date, whichever is earlier. Buyer's failure to notify Wolverine Coatings of such nonconformance as required herein shall bar Buyer from recovery under this warranty.

Wolverine Coatings makes no other warranties about the product. No other warranties, whether expressed, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply.

Any recommendation or suggestion relating to the use of the products made by Wolverine Coatings, whether in its technical literature, or in response to specific inquiry or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for the Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedure of use, or extrapolation of data may cause unsatisfactory results.

## LIMITATION OF LIABILITY

Wolverine Coatings Corporation's liability on any claims based upon Wolverine Coatings Corporation's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or parts thereof which give rise to the claim. In no event shall Wolverine Coatings Corporation be liable for consequential or incidental damages.

## LITERATURE REVISION - TDS: EnduraTred 1191 - Rev. 220103

Published literature is subject to change without notice. Wolverine Coatings Corporation is constantly engaged in the testing of existing formulations, the development of new innovative technologies, and the evaluation of the latest practices. The latest literature should always be consulted at [www.wolverinecoatings.com](http://www.wolverinecoatings.com).



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