

Hempatop Direct 460

New generation one-coat DTM epoxy

Product description

Hempatop Direct 460 is a two-component polyamide cured epoxy coating. While delivering excellent protection against corrosion, it is uniquely formulated to combat color and gloss fading.

This new innovation in epoxy coatings:

- chalks to original color for extended aesthetics and color retention
- extends initial high gloss
- applies with ease, equating to less rework and quicker throughput
- offers excellent UV and chemical resistance

Hempatop Direct 460 is a one-coat, direct-to-metal (DTM) epoxy that dries quickly to a resilient, long wearing high gloss finish to protect rail assets from corrosion and ensure long-term color performance.



Internal test	Result
Adhesion	1180 PSI/ 8 MPa
Flexibility	No cracking after bending over a 88,5 fixed radius mandrel giving a flexure strain (elongation) of approximately 2,0%
Corrosion resistance	No blisters Exposure: 2056 hours Rust creep from scribe of less than 4 mm
Solvent Resistance (ASTM D5402)	Resistant to MEK more than 200 double rubs

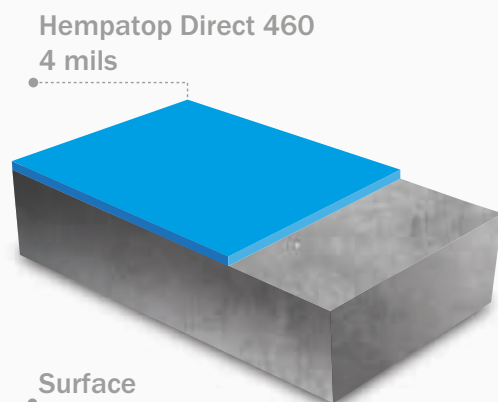
Typical applications

Ideal for railcars, both exterior and box car interiors to give heavy duty, long term protection under severe service conditions. Also, where low VOC is an important factor in coating choice (consult Hempel Representative).

- Mixing ratio: Base 460A5: Curing agent 940AM
1:1 by volume

Features	Benefits
Resilient high gloss finish	High gloss finish lasts longer than competitors during heavy duty service
Chalks to original color	Uses the latest color technology to chalk to original color for extended aesthetics
Enhanced color retention	Resistant to UV, weather and chemicals Keeps its color longer
Single coat DTM	Self priming with excellent adhesion to metal base and hard wearing finish
Easy to apply	Can be applied with brush, standard or plural component airless equipment
Fast drying	Dry to touch 3 hours
1:1 mix ratio	Easy mix ratio reduces errors

Typical specification



Physical constants	
Shade nos/colors:	Black/19990, Standard Grey/17700, Light Grey/11150, White/10000
Finish:	Glossy
Volume solids, %:	76 +/- 1
Theoretical spreading rate:	305 sq.ft/US gallon [7.5 m ² /L] 100 micron/4 mils
Flash point:	82°F/27°C
Specific gravity:	10 lbs/US gallon [1.2 kg/L]
Dry to touch	3 hours at 68°F/20°C
VOC content	1.94 lbs/US gallon [232.5 g/L]

The physical constants stated are nominal data according to the Hempel Group's approved formulas. They are subject to normal manufacturing tolerances. This product should be used with reference to the Technical Specifications.

Appearance after 542 hours QUV exposure



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DTM commonly used in rail

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