

Hempatop Direct 460 LH

New generation one-coat DTM epoxy

Product description

Hempatop Direct 460 LH is a high solids, low HAPS, 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 LH 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	Avg: 2105 PSI / 14.51 MPa ASTM D4541 or 3359 - 5B
Flexibility	No cracking after bending over a 3,2mm fixed radius mandrel giving a flexure strain (elongation) of approximately 28,0%
Corrosion resistance	No blisters Exposure: 2056 hours Rust creep from scribe of less than 4mm
Solvent resistance (ASTM D5402)	Resistant to MEK more than 200 double rubs
Taber abrasion	500 cycles - 0.0501g 1000 cycles - 0.0871g
Impact	Direct: 100 in-lbs Reverse: 60 in-lbs

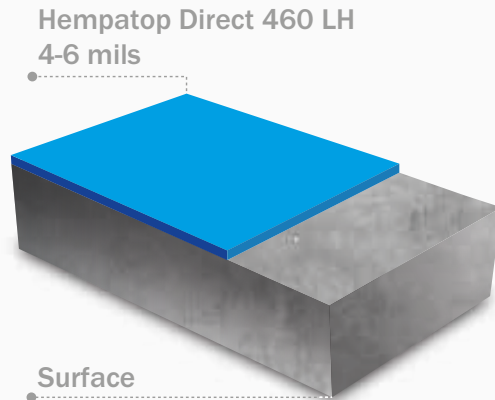
Features	Benefits
Resilient high gloss finish	High gloss finish lasts longer than competitors during heavy duty service
Chalks to original color	Uses the latest color technology to chalk to original color for extended aesthetics
Enhanced color retention	Resistant to UV, weather and chemicals Keeps its 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	1.5 hours @ 100 °F/37 °C (2.5 hours @ 68 °F/20 °C)
1:1 mix ratio	Easy mix ratio reduces errors

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

Typical specification



Physical constants	
Shade nos/colors:	Black/1999H, Standard Grey/1770H, Light Grey/1115H, White/1000H
Finish:	Glossy
Volume solids, %:	78 +/- 2
Theoretical spreading rate:	312.8 sq ft / US gal (7.8 m ² /liter)
Flash point:	82°F/27°C
Specific gravity:	10.4 lbs/US gallon [1.2 kg/L]
Dry to touch	2.5 hours at 68°F/20°C
VOC content	1.53 lbs/US gallon [183 g/L]
Dry through	5 hours

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



Hempatop Direct 460



DTM commonly used in rail

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