

Floating roof protective coatings

Extended service life using
flexible technology



Up to the challenge

Floating roof tank storage systems need to be tough. They face extreme corrosion conditions caused by volatile emissions from the tank contents; from condensation, water ingress and UV degradation caused by the prevailing climate plus the elevated temperatures required to store crude and distillate contents.

Floating roof environments typically call for heavy duty protection and require two to three coat systems with higher DFT's. Many of the existing systems combat traditional corrosion caused by water but are unable to withstand thermal cycling, or the damage caused by UV light. The thicker coating is less flexible and requires regular maintenance.

The flexible choice

Hempel's new two coat system combines the superior strength of our Avantguard® technology as the primer, with the advanced, high-solids formulation of our rubber-modified Hempel's Epoxy 3548H for the topcoat.

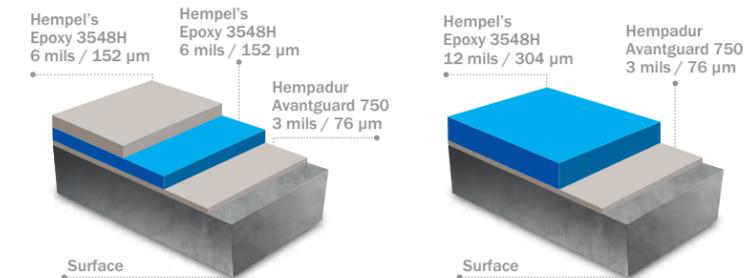
This creates a thinner system (up to 9 mils DFT), that gives you significant advantages including:

- extended service life
- less coating required
- protection against UV light
- resistance to thermal cycling

Using the latest technology

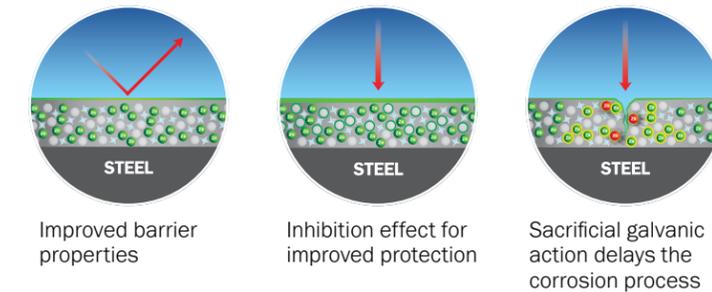
The system

Typical application



Primer: Hempadur Avantguard 750®

Using Hempel's unique activated zinc anti-corrosive technology, Hempadur Avantguard 750 is fast curing, easy to apply and retains its properties even at excessive application. It offers increased durability using all three methods for proven superior protection against corrosion:



Parameters	
DFT range (min and max)	2 - 4 mils / 50 - 100 microns
Min. overcoating intervals with epoxy (68°F / 20°C)	1hr
Through drying (68-77°F / 20-25°C)	1hr 30min
VS%	65
VOC	2.6 lbs/US gallon [317 g/L]
Pot life (68°F / 20°C)	4hrs
Application equipment	Airless spray, air spray, brush

Topcoat: Hempel's Epoxy 3548H

This rubber-modified epoxy coating is an extremely flexible, tough, abrasion-resistant coating. With long lasting pliability, (11 per cent elongation over the life of the coating) it resists thermal cycling and demonstrates exceptional chemical, atmospheric and immersion resistance.

Parameters	
Colors	A3030/ Blue, 01950 / Off white
Finish	Semi-gloss
Min. overcoating intervals with epoxy (68°F/20°C)	8hrs
Through drying (68°F/20°C)	7 days
VS%	61±1
VOC	2.5 lbs/US gallon US EPA Method 24 (318g/L)
Pot life (68°F / 20°C)	6hrs
Application equipment	Airless spray, brush, roller, heated component spray

Flexibility

ASTM D522; CRS Panels (4x6); DFT = 10 mils; 1, 7 and 14 days cure at 75°F

Test Results	1 day cure	7 days cure	14 days cure
Elongation	32%	15%	11%



Our unique external floating roof coating system is proven to give your assets extended protection against corrosion, to keep them operational for longer, even in the harshest environments while saving you time and money.

About Hempel

As a world-leading supplier of trusted coating solutions, Hempel is a global company with strong values, working with customers in the protective, marine, decorative, container and yacht industries. Hempel factories, R&D centers and stock points are established in every region.

Across the globe, Hempel's coatings protect surfaces, structures and equipment. They extend asset lifetimes, reduce maintenance costs and make homes and workplaces safer and more colorful. Hempel was founded in Copenhagen, Denmark in 1915. It is proudly owned by the Hempel Foundation, which ensures a solid economic base for the Hempel Group and supports cultural, social, humanitarian and scientific purposes around the world.

Hempel (USA), Inc.

600 Conroe Park North Dr.
Conroe, TX 77303
USA
Toll Free: 1-833-4HEMPEL
Email: hempel.us@hempel.com

Hempel (Canada) Inc.

111 - 19097 26th Avenue
Surrey, BC V3Z 3V7
Canada
Toll Free: +1 800 661 3201
Email: hempel.ca@hempel.com

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Arrayanes entre Encino y Laurel Lote 23
Manzana III
Cd. Industrial Bruno Pagliani
Veracruz, Ver. CP 91750
México
Tel: +52 229 923 4860
Email: sales.mx@hempel.com