

PROTECTIVE COATINGS

solutions that cover your needs



NovaGuard™ 890

The Solvent-Free Solution for Biofuel Storage

- Maximum storage flexibility with unlimited ethanol level in gasoline blends
- Resistance to a wide range of chemicals, solvents and refined fuel products
- Resistance to crude oil up to 90°C/194°F
- Exceptional pit filling and tank bottom repair
- Easily reinforced by chopped fiber glass or fiber glass mat
- Simple and efficient application process



PPG Protective & Marine Coatings

NOVAGUARD 890 is a solvent-free, phenolic, Novolac epoxy tank lining that meets the latest chemical resistance requirements of the petrochemical industry, including all levels of ethanol in blends of gasoline and biodiesel grades. The coating is designed for application by standard airless spray equipment and is ideally suited for the lining of new tanks and the major refurbishment of old tanks, including tank bottom repair as a reinforced lining.

NOVAGUARD 890 is an important product for the petrochemical industry today due to emerging transportation fuel trends including:

- Widespread use of ethanol as an oxygenate in gasoline. Depending on local regulation, typical gasoline's in use vary from 5% ethanol (E5) up to 95% ethanol (E95).
- Increased use of biodiesel as a clean-burning alternative fuel. Biodiesel can be blended at any level with petroleum diesel to create a biodiesel blend. Typical grades of biodiesel include B5, which is a blend of 5% fatty acid methyl ester (FAME) and conventional diesel, and higher grades
- Growing utilization of Biodiesel and (bio) ethanol as a means of reducing greenhouse gas emissions and increasing energy security by providing an alternative to fossil fuels. Biofuel is now produced from carbon sources that can be replenished, including plants, vegetation, and plant waste streams.

Typical specification

400 microns/16 mils

Chemical resistance

An extended chemical resistance list of *NOVAGUARD 890* can be found in TankSelect, <http://tankselect.sigmacoatings.com>

Typical Chemical resistance chart of *NOVAGUARD 890*

Stored product	Resistance
Biodiesel B5	✓
Biodiesel B20	✓
Crude naphtha	✓
Crude oil	✓
Gasoline (E5, E10, E15, E20, E85)	✓
Heavy fuel oil	✓
Jet fuel	✓
Unleaded gasoline	✓

(✓ = resistant to product)

For reference only, for complete product resistance list refer to TankSelect guide.



Excellent solvent resistance



Excellent corrosion protection



Resistant to chemical immersion



Minimal maintenance down-time



Solvent-free technology



Please check our website for product datasheets and the latest information on these and other fine products: www.ppgpmc.com/northamerica