



THORCOWET HC – Powerful Invert Emulsifier

Reduced VOC, COST Savings

Thorcowet HC is recommended to formulate **water extended asphalt coatings products**.

Addition of 5-20 percent by solvent weight of Thorcowet HC into an **asphalt coating product**, allows for a stable inverse emulsion of **water in asphalt to be formed at up to 40 percent by weight water** without impacting coating properties.

Significant reductions in cost and VOC can be achieved.

CHEMICAL NAME: Soyamide DEA

Physical Properties	Typical Value
Appearance	Clear Amber Liquid
Gardner Color	4 - 10
Solubility 5% @ 250 C	Translucent to Soluble & Viscous
pH (1 % Solution)	9.5 – 10.5
Specific Gravity (250 C)	0.99 G/L
Amine Value	20 - 40
% Activity	100

EMULSIFICATION/STARTING FORMULATION

An example of the outstanding water-in-oil (invert) emulsifying properties of Thorcowet HC is as follows: By combining 20 parts (by wt.) of Thorcowet HC with 80 parts (by wt.) of solvent phase and slowly adding water with good agitation and shear, a stable water-in-oil emulsion can be prepared containing an unusually high percentage of water. As the water concentration is increased, the emulsion becomes more viscous, however does not invert to an oil-in-water emulsion until the concentration of oil is below 8% (by wt.).

The excellent oil emulsification properties of this low to moderate foaming surfactant suggest its use in degreasers and other hard surface cleaners.

