Durability Of Material

- Characteristics of SOY BASED RESIN:
  - High strength
  - High modulus
  - Dimensional stability
  - Low shrinkage
  - Low moisture regain
  - Thermal stability
  - Chemical resistance
- Thermal Resistance of SOY BASED RESIN:
  - HDT > 450 degrees F
  - Maintain excellent flexibility and strength at temps below freezing.
- Chemical Resistance –General of SOY BASED RESIN:
  - Water
  - Salts
  - Organic acids
  - Organic solvents
  - Dry cleaning solvents
  - Oxidizing agents
  - Reducing agents
  - Sulfuric acid (acid rain)
  - Gases and fuels (petroleum)
- UV Resistance:
  - SOY BASED RESIN can withstand 400 hrs in direct sunlight and will retain greater than 90% of its strength. (two-six months aging in calendar time)
- Chemical Resistance –Acids:
  - SOY BASED RESIN is highly resistant to most minerals and organic acids.
- Chemical Resistance –Inorganic Salts:
  - Does not effect SOY BASED RESIN even after one full year of exposure.
- Chemical Resistance –Fertilizers:
  - Effects of fertilizer on SOY BASED RESIN depends on the chemical composition and moisture content of the fertilizer but generally is not an issue in most applications.
- Creep Resistance :
  - SOY BASED RESIN can support a load over 50% of its breaking strength with minimal creep for an extended service life.
  - This excellent creep resistance assures that SOY BASED RESIN maintains acceptable strain levels under load for extended periods.
- Summary Conclusions:
  - SOY BASED RESIN is inert to a wide range of chemical classes encountered in soil.
  - SOY BASED RESIN is not affected by microorganisms in soil.
  - Is highly resistant to Sulfuric acid (acid rain), Gases and fuels (petroleum)