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)