

## DESCRIPTION:

TEC2000 UV is a UV absorber of the hydroxyphenylbenzotriazole class specifically developed for coatings on Polycarbonate, Acrylic, PVC, PETG and other plastics. The product is miscible with all common solvents but also easily incorporated into water borne systems. The high temperature and extraction resistance of TEC2000 UV makes it especially suitable for industrial and automotive coatings.

## PHYSICAL PROPERTIES:

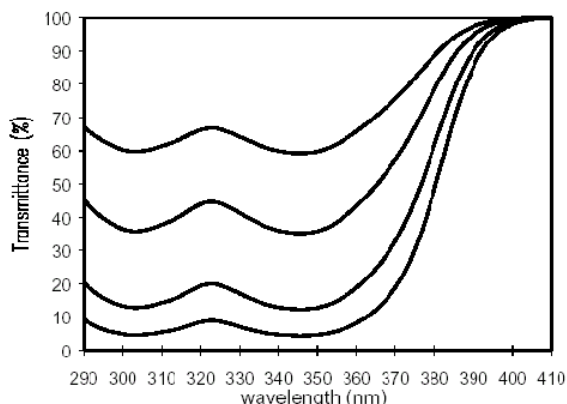
Appearance: water clear to yellow to light amber hard-coating.

Dynamic Viscosity prior to curing at 20°C: 7400 mPa.s

Density at 20°C: 1.17 g/cm<sup>3</sup>

Miscibility (g/100 g solution) at 20°C:

- miscible (> 50) with polar and non-polar organic solvents
- not miscible with water



### Explanation:

Top line: 0.001% TEC2000 UV, corresponds to 0.25% in a 40  $\mu$  film

Second line: 0.002% TEC2000 UV, corresponds to 0.50% in a 40  $\mu$  film

Third line: 0.004% TEC2000 UV, corresponds to 1.0% in a 40  $\mu$  film

Corresponds to the 1/4" substrate applicable to this document.

Bottom line: 0.006% TEC2000 UV, corresponds to 1.5% in a 40  $\mu$  film

TEC2000 UV is recommended for evaluation as a coating on sheet plastics that are coated for use in areas such as:

- Automotive and Marine parts
- Industrial shields
- High ambient light conditions
- Signage
- Commercial and private use where clear viewing is needed
- POS Lighted Displays

TEC2000 UV may be used in combination with a light stabilizer of the sterically hindered amine class if out gassing of amines is not an issue. These synergistic combinations impart superior coating protection against gloss reduction, cracking, blistering, delamination and color change. The light stabilizers may be added in two coat automotive finishes on plastic parts to the clear coat and to the base coat. However, according to our experience, the optimum protection is achieved by adding the light stabilizer to the TEC2000 topcoat.

The dispersion of TEC2000 UV in water borne systems may be eased by dilution with a water miscible solvent such as butylcarbitol.

The amount of TEC2000 UV required for optimum performance should be determined in trials covering a concentration range.

**IMPORTANT:** The following supersedes Buyer's documents. SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A SPECIFIC USE. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). All specifications are based on 1/4" material with the TEC2000 UV Hard coat applied. Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled or lab work and must be confirmed by buyer by testing for its intended conditions of use.

TEC 2000 products offer superior protection of acrylic and polycarbonate sheets or thin gauge materials. In most cases the materials coated can be bent to a soft radii or machined to size without coating failure. The TEC 2000 product line is designed to offer the user abrasion and chemical resistance that is far superior to uncoated polycarbonate or acrylic sheets or thin gauge materials. Due to the number of different manufacturers of polycarbonate and acrylic sheet products on the market, ACP NOXTAT cannot warrantee this product for specific applications. Although verbal, written information or recommendations contained in any of the ACP NOXTAT literature is given in good faith, no guarantee is made that the same results or satisfaction will be obtained. None of the ACP affiliates, employees or authorized representatives will be held responsible for any loss incurred up to and including labor, materials, coating costs or shipping charges. Each user of the product shall make its determination as to the suitability of the product in its intended use. All modifications to the coating to offer desired results for specific applications will be done at the risk of the purchaser and ACP NOXTAT will not accept any responsibility for the end results. Any testing that is needed will be done by the purchaser to determine whether the products performance falls within the specific guidelines that are needed for the purchaser's particular application.