



## 1. Product Name

- Patio 500® Awning Fabric

## 2. Manufacturer

Herculite Products Inc.  
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## 3. Product Description

### Basic Use

This high performance PVC textile is engineered for commercial and residential awnings and canopies. It incorporates specially formulated flexible polymer technology and a high tenacity polyester substrate. It is suitable for sewing, welding, digital printing and fabrication by various means common in the awning fabrication industry. In addition to its durability, Patio 500 Awning Fabric is a commercial grade PVC fabric that carries a five year manufacturer's warranty against UV degradation or fading. It is mildew, stain and dirt-resistant.

Awnings and canopies fabricated with Patio 500 offer their owner confidence that their awning canopy will stay water-proof, tight on the frame and stay inherently fire resistant. With a properly engineered frame support structure, Patio 500 is suitable for year round snow load and wind load requirements. Awnings made with Patio 500 Awning Fabric will provide years of useful weather and sun protection.

Patio 500 is the perfect choice for awnings and canopies, both commercial and residential. This fabric has exceptional resistance to mildew and UV degradation. Patio 500 has a matte finish that combines long-lasting good looks with exceptional dimensional stability and superior strength. Patio 500 fabrics are heat sealable and can be decorated with signage and graphics using various methods including; heat-sealed and inset fabrics, silk screening, hand painting and appliqué.

Patio 500 is made in America and is the ideal PVC composite fabric for awnings and canopies, poolside structures, car shelters, patio covers, walkway coverings, privacy screens, curtains and in-home decorative ceilings, awnings and drapes.

The Patio 500 brand fabrics are presented in two designer categories: 34 solid and duplex patterns.



### Composition and Materials

Patio 500 consists of the following five layers:

1. Face layer PVC film formulation package
2. PVC-based high flex multi-functional adhesive
3. Core stabilized polyester fabric
4. PVC-based high flex multi-functional adhesive
5. Reverse layer PVC film formulation package







**Features and Benefits**

- SPF 50+
- Waterproof
- Made in America
- 34 vibrant solid colors
- Age, fade, dirt and mildew resistant.
- Five-year manufacturers limited warranty
- Can be sewn or welded using heat, radio frequency, solvent, hot air or wedge welded
- Waterproof, dimensionally stable; no shrinkage, stretch, sagging, pocketing or leakage common to woven awning fabrics
- Flame retardant; CSFM Title 19, NFPA 701, ASTM E84 Class A, M2

**Sizes**

Rolls of up to 50 yards are 62 inches wide.

**Colors**

The Patio 500 brand fabrics are presented in 34 vibrant solid colors

- |                      |                  |
|----------------------|------------------|
| • Black 508          | • Champagne 537  |
| • Clear 513          | • Timber 540     |
| • White 523          | • Pewter 528     |
| • Designer White 541 | • Slate Gray 506 |
| • Eggshell 524       | • Buff 515       |
| • Beige 522          | • Sunflower 566  |
| • Parchment 538      | • Teal 564       |

- |                   |                                     |
|-------------------|-------------------------------------|
| • Lime Green 514  | • Burgundy 527                      |
| • Jade 567        | • Ruby 545                          |
| • Spruce 543      | • Bright Red 529                    |
| • Dark Green 510  | • Terra Cotta 526                   |
| • Emerald 562     | • Sunset Orange 544                 |
| • Summer Ivy 570  | • Brown 516                         |
| • Reef Blue 565   | • English Brown 525                 |
| • Bay Blue 539    | • Emerald/Eggshell Duplex 580       |
| • Royal Blue 503  | • Cobalt/Eggshell Duplex 581        |
| • Dusky Blue 518  | • English Brown/Eggshell Duplex 587 |
| • Cobalt Blue 536 |                                     |

Patio 500 color chart available [here](#).

**4. Technical Data**

**Applicable Standards**

**ASTM International**

- **ASTM E 84 CLASS A** Rating Standard Test Method for Surface Burning Characteristics of Building Materials
- National Fire Prevention Association (NFPA)

- **NFPA No. 701**

Approvals

- California Administrative Code Title 1 Public Safety Section 1237
- California State Fire Marshall (CSFM) registered

**Environmental Considerations**

A building with awnings and shades may qualify for LEED® points.



## Vinyl and the Environment

Vinyl is energy efficient. Vinyl takes 20 percent less energy to produce than many competing products. Vinyl uses 50 percent less energy than polyester and 670 percent less energy than PLA which is derived from corn. Vinyl is lightweight and requires less fuel and generated lower emissions to transport. Herculite's high performance textiles used in sun control applications reflect solar energy creating a shade environment that reduces cooling costs by 17–24 percent depending on geographic location.

Vinyl is inherently recyclable generating one billion-plus pounds of post-industrial recycling annually. Because of its durability and long useful life as compared to plastic bottles, vinyl generated substantially less material to be carted off to landfills and the like each year. Vinyl contributes to a smaller carbon footprint because it uses less fuel and emits less carbon dioxide, (CO<sup>2</sup>), than alternatives for example, vinyl consumes 24 percent less oil than polyethylene, 37 percent less than polyester, 86 percent less than nylon and 204 percent less than aluminum. Vinyl also has lower CO<sup>2</sup> emissions: vinyl generated 30 percent less CO<sup>2</sup> than polyethylene, 120 percent less than polyester and 260 percent less than aluminum.

## 5. Installation

### Seaming Methods

Some of the most common methods used for seaming Patio 500::

#### **Hot Air Welding**

This process of vinyl welding involves the use of hot air—varying from 200 to 600 degrees C or more—to weld two layers of fabric. A nozzle is inserted into the space between the two layers and the hot air is blown inside. Once the surfaces are hot enough, the layers are pressed together using pinch rollers. The weld is created once the rollers are finished pinching the fabrics together.

#### **Radio Frequency Welding**

Also known as high frequency or dielectric welding; uses radio waves to create heat.

#### **Solvent Welding**

In this process, chemical solvents are used to create a seam. The solvent is placed along the surface of the fabrics and allowed to rest for a short period of time. The solvent's chemicals break down or soften the fabrics. Once the fabrics are soft enough, pressure is applied to create the seam.

#### **Wedge Welding**

Two pieces of fabric are passed through a wedge. The wedge is heated and as the fabrics move along, a roller is used to press them together; a seam is created.

#### **Sewing Using Polyester or Teflon Thread**

The seam is created using a sewing machine. Proper thread selection is critical especially when outdoor applications are subject to harsh weather elements. Polyester and Teflon threads offer strength and durability.

## 6. Availability and Cost

### Availability

Patio 500 is readily available with inventory strategically located throughout the United States.

### Cost

Cost information can be obtained from the manufacturer or distributor of Patio 500.

## 7. Warranty

Patio 500 carries a five-year limited manufacturer's warranty. Complete warranty terms and conditions are available from Herculite Products Inc.

Warranty information available [here](#).

## 8. Maintenance

Patio 500 Awning Fabric is a polyester reinforced PVC fabric that

will provide many years of satisfactory service. It is waterproof, flame, mildew, stain and dirt resistant. Properly fastened to the frame, it will retain its trim fit as well as its protective function and aesthetic value. Since no industrial textile is impervious to all hazards, periodic and proper maintenance is important if maximum life of the product is to be realized. Detailed care and cleaning instructions can be obtained from the manufacturer or distributor of Patio 500 Awning Fabric.

Detailed care and cleaning information available [here](#).

## 9. Technical Services

Detailed information, product samples and literature, test results, project lists and assistance in preparing specifications are available through Herculite Products, Inc.

For questions about specifications, code regulations, product usage or product installation, please call Herculite Products, Inc. or visit our website: [www.herculite.com](http://www.herculite.com).

## 10. Filing Systems

- ConstructConnect
- Additional product information is available from the manufacturer upon request ↪