



Ray Bloc for Clothing

Advanced UV Protection Formula for Clothing

Trek7 Ray Bloc Fabric UV Protector for Clothing is a water based formula using advanced environmentally friendly technology to increase the **UPF** rating of clothes and to protect individuals from UV rays and skin cancer. Ray Bloc prevents UV rays from penetrating the fabric and converts the UV rays to other forms of energy. Once Trek 7 Ray Bloc dries on the fabric it will not change the look, color, texture or feel of the fabric. A gentle coating of the fabric is all that is necessary to provide protection from UV radiation. Trek7 Ray Bloc UV Protection for clothing will last several washes (10-12) however needs to be reapplied periodically for continued protection.

Unlike most other fabric protectants Trek7 Ray Bloc UV Protector is environmentally friendly, water based and does not have a heavy chemical or solvent smell which can linger in the room for hours or days. Each, 18oz and 8oz container comes with a trigger nozzle for easy application and is ready to apply.

The American Academy For Dermatology (AAD) specifically encourage people to wear sun protective clothes as part of the efforts to prevent skin cancer:

Advantage

- Provides UV A & B protection from the sun
- Can be applied to any article of clothing
- Improves **UPF** rating of fabric
- Allows the fabric to breath and water vapor to escape
- Water based / environmentally friendly
- Durable
- No discoloration of the fabric when applied
- No odor when dried
- Easy to apply
- Environmentally safe
- Non aerosol
 - No aerosol propellants
 - Recyclable container
 - Non-toxic and not flammable

UPF all links to the next page

<http://upfclothing.org/can-upf-clothing-reduce-chances-of-skin-cancer/>

UPF Rating

A relatively new rating designation for sun protective textiles and clothing is UPF (Ultraviolet Protection Factor). Unlike SPF (Sun Protection Factor) that traditionally uses human sunburn testing in a laboratory environment, UPF measures both UVA and UVB radiation transmittance through a fabric which might hit the skin or percent of radiation which can go through the fabric.. The SPF is the amount of UV radiation required to cause sunburn on skin with the sunscreen on, as a multiple of the amount required without the sunscreen.

Each type of fabric has it own UPF rating. For example dark blue denim will have a higher rating than a fine silk. Factors that affect the level of sun protection provided by a fabric, in approximate order of importance, include weave, color, weight, stretch, and wetness.

Ray Bloc has been tested on numerous fabric and increase the UPF rate of all the fabrics. Trek 7 took a common type of cotton tee shirt fabric. We left one swatch untreated and the other we treated with Ray Bloc. The samples were sent to an independent lab for UPF rating. The results were dramatic where the untreated cotton fabric received a UPF rating of 15 which was poor. The fabric treated with Ray Bloc had a UPF rating of 50+ or Excellent increasing the UPF rating by 40 point. It has been tested on a variety of fabric significantly increasing the UPF buy over 40 points or more.

UPF Ratings and Protection Categories

UPF Rating	Protection Category
UPF 15 - 24	Acceptable
UPF 25 - 39	Good
UPF 40 - 50+	Excellent

A rating below 15 is considered unacceptable in protecting an individual from UV radiation.

The American Academy For Dermatology (AAD) specifically encourage people to wear sun protective clothes as part of the efforts to prevent skin cancer:

Sun exposure is the most preventable risk factor for all skin cancers, including melanoma. You can have fun in the sun and decrease your risk of skin cancer. Here's how you can prevent skin cancer:

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- **Seek shade when appropriate.** Remember that the sun's rays are strongest between 10 a.m. and 2 p.m. If your shadow appears to be shorter than you are, seek shade.
- **Wear protective clothing**, such as a long-sleeved shirt, pants, a wide-brimmed hat, and sunglasses, where possible with a high UPF rating.
- **Generously apply a broad-spectrum, water-resistant sunscreen** with a Sun Protection Factor (SPF) of 30 or more to all exposed skin. "Broad-spectrum" provides protection from both ultraviolet A (UVA) and ultraviolet B (UVB) rays. Reapply approximately every two hours, even on cloudy days, and after swimming or sweating.
- **Use extra caution near water, snow, and sand** because they reflect and intensify the damaging rays of the sun, which can increase your chances of sunburn.

Through SPOT Skin Cancer™ the American Academy of Dermatology and its partners are working to reduce the incidence of and deaths from skin cancer over the next three decades.

<https://www.aad.org/spot-skin-cancer>