

**PERMACOOL™**  
COMFORT TECHNOLOGY 

**Breeze™**

**OUTDOOR & MARINE COLLECTION**

**SPRADLING®**



BRZ-1451  
COGNAC



BRZ-1452  
BRIGHT WHITE



BRZ-1453  
ARCTIC SKY



BRZ-1454  
SAND DOLLAR



BRZ-1455  
FARRO



BRZ-1456  
CHAMPAGNE



BRZ-1457  
MUDSLIDE



BRZ-1458  
SAPPHIRE



BRZ-1459  
NAVY



BRZ-1460  
SIDEWALK



BRZ-1461  
GRAPHITE



BRZ-1462  
BLACK

## Cooler to the touch

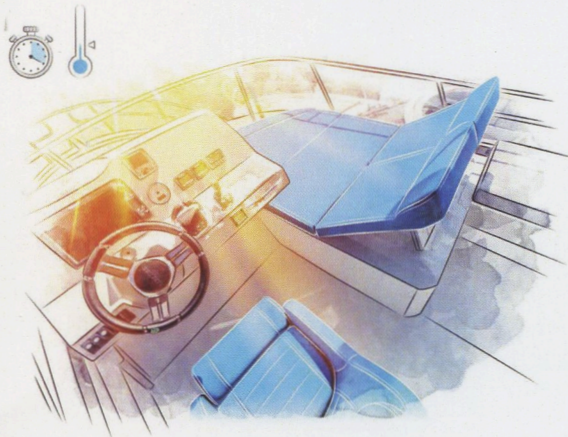
We all know that heat from the sun can cause dark surfaces to reach high temperatures, especially on very sunny days.

This is why Outdoor, Marine and Automotive design teams tend to avoid selecting dark colors for upholstery. They reach excessive temperatures that inhibit proper comfort for the end user.



\* Thermal sensation may vary by geography and weather conditions such as geolocation, elevation, wind speed, meteorological seasons and humidity.

## THE SUN'S RAYS HAVE FINALLY BEEN TAMED!



Spradling has developed an innovative technology to ensure more comfortable surfaces. Permacool™ is a highly advanced reflective protection designed to reduce the amount of radiant heat absorbed by surfaces, improving the thermal sensation of upholstery during hot sunny days. You have to feel it to believe it!

Designers and exterior seating manufacturers are no longer limited to selecting lighter colors. With Permacool Technology, Spradling offers an expanded color palette making even dark surfaces cooler to the touch on sunny days.

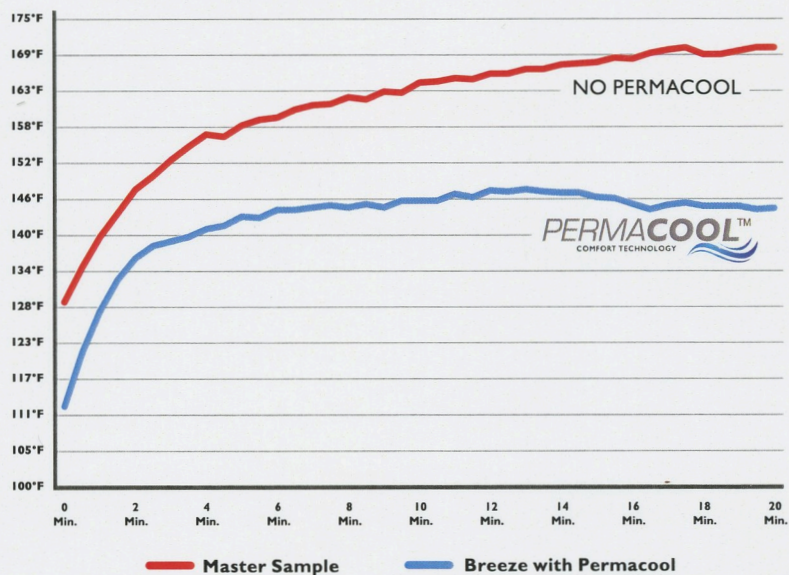
## HOW IT WORKS

Permacool technology reduces the temperature of upholstery by up to 26°F when compared to regular vinyl-coated fabrics. These results were obtained by measurements carried out in accordance with ASTM D 4803-10\*\*.

Temperature reduction may lessen due to the print, embossing, and color of the coated fabric. The highest temperature reduction is achieved by darker upholstery shades.

In addition, due to the decrease in heat absorption, there is less stress on the upholstery which affords coated fabrics with Permacool superior longevity for your creations.

Temperature measurements as stipulated by ASTM D4803\*\*



\*\* Tests conducted under controlled scientific conditions in a laboratory, following the ASTM D 4803-10 standard (prediction of the heat build-up in rigid and flexible PVC building products above ambient air temperature, relative to black, which occurs due to absorption of the sun's energy). Temperature readings were taken every 30 seconds during the 20 minute test period with a plain black coated fabric as the test specimen (incorporating PERMACOOL technology) that is heated under an infrared reflective heat lamp to determine the temperature increase above ambient (laboratory) temperature, relative to a black control sample.

# BREEZE™

## Content

Vinyl

## Backing

Hi-Loft<sup>2</sup>™

100% Polyester

## Finishes

**PERMABLOK™ PLUS+**  
ADVANCED VINYL PROTECTION

**PERMACOOL™**  
COMFORT TECHNOLOGY

## Characteristics

Bleach Cleanable (1:9)\*\*

Cleanable

Denim Dye Cleanable

Stain Resistant

Water Resistant

## Environmental

Formaldehyde Free

No Heavy Metals

## Performance

Superior Abrasion

CFFA-1a / ASTM D-4157  
100,000 Cycles, Wyzenbeek #10 Cotton Duck

Anti-Static

ASTM D-257

Cold Crack -10°F

CFFA-6a

Mildew Resistant

ASTM G21

Sulfide Stain Resistant

Fisher Body TM 31-12

Temperature Reduction Treatment

ASTM D4803

UV Stability

QUV: ASTM D-4329 / CFFA-2 c2 - Grey Scale  
650 Hours

Xenotest: AATCC TM 16-3 / NTC 1479 /  
CFFA-2a - Blue Wool  
1,000 Hours



This fabric meets or exceeds these  
ACT performance guidelines.

\*Certification Marks owned by ACT®

**CFFA** CHEMICAL FABRICS & FILM  
ASSOCIATION, INC.



miamicorp.com | 800.543.0448

## Flame Retardancy\*

California T.B. 117 - 2013

FMVSS 302

NFPA 260 - Cover Fabric - Class I

UFAC Fabric - Class I

\*This term and any corresponding data refer to the typical performance in the specific tests indicated and should not be construed to imply the behavior of this or any other material under actual fire conditions.

## Specifics

Weight: 29 oz.

Width: 54 in.

Roll Size: 30 yd.

## Applications

Automotive | RV

Education

Healthcare

Office

Hospitality

Hotel | Motel | Casino

Restaurant

Public Spaces

Marine

Interior

Exterior

Residential

Interior

Exterior

## PERMABLOK PLUS+ CLEANING GUIDE



We recommend cleaning at least once a week to extend the lifespan of the upholstery, which will prevent dirt and contamination buildup and permanent staining. In the event of a spill, wipe off any excess right away with a dry white cloth or fabric, but be careful not to spread to the remaining surface.



Clean the whole surface in a circular motion using liquid hand soap (pH neutral) and water (1 part soap to 9 parts water). Check the Approved Cleaners guide for recommended cleaning products. Wipe with a clean damp cloth to get rid of any excess soap. Repeat as needed and then let dry.



If there is any buildup that cannot be removed with soapy water, a mixture of 1 part isopropyl alcohol to 9 parts water can be used as a last resort. (Remember, using alcohol on a regular basis can affect the properties of the product).



Once a month, you can use a soft-bristle brush for a deeper cleaning. Remember, light colors need more care, more often.

**Note:** The cleaning products recommended were used in a laboratory setting. Spradling Group® has no relationship with the manufacturers of those cleaning products.

### \*\*Disinfectants

In addition to cleaning, some facilities maintain disinfecting regimens to reduce the spread of infections. There is a wide variety of available biocides that include bleaches, peroxides, and quaternary ammonium products, among others. They should always be used at the recommended dilution, never in concentrated form. To prolong the life of coated fabrics, the disinfectants should be rinsed off after each use. It should be noted that misuse of disinfectants is the major source of surface deterioration. Spradling International, Inc.® continually evaluates cleaners/disinfectants, and a list of those tested can be found on our website.

**Abrasion test results exceeding ACT Performance Guidelines are not an indicator of product lifespan. Multiple factors affect fabric durability and appearance retention.**

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5/2022

**CARBON  
NEUTRAL**  
CERTIFIED

**ISO**  
14001