BRADY
WHEN PERFORMANCE MATTERS MOST™

5S Floor Marking Color Standard

Government Regulations & Industry Standards

While several OSHA regulations dictate that permanent aisles and passageways must be clearly marked, there are no current government-mandated or even widely accepted industry standards that proscribe what colors to use when marking floors.

Some suppliers inappropriately reference the ANSI Z535.1 Safety Color Code standard as a guide for selecting colors for floor marking. Earlier versions of the standard did include color specifications for specific types of safety hazards and equipment.* However, the specifications were removed from the 2002 edition of the standard and no longer represent ANSI recommended best practices. Moreover, Section 4.2 of the standard explicitly states that the specifications are intended for use on safety signage. Thus Z535.1 does not provide a sound basis for formulating a color standard for floor marking.

Some information resources also reference OSHA standard 29 CFR 1910.144, Safety Color Code For Marking Physical Hazards. However, these specifications are extremely limited in scope. The standard simply states that red should be used to identify fire protection equipment, emergency stop devices, and containers holding dangerous materials. Yellow should be used for marking physical hazards such as striking against, stumbling, falling, tripping and caught-in-between hazards. Again, the standard is not designed to provide guidance on color usage when marking floors.

Brady Color Recommendations For Floor Marking

The following recommendations comply with the OSHA 1910.144 standard noted above, but go further to provide a comprehensive color scheme that helps to visually delineate work areas and pathways, as well as to identify at a glance designated storage locations for materials, product, tools and equipment.

The color scheme intentionally limits the number of colors to promote easy learning and memorization. It can be modified as needed in order to suit the specific operational priorities, processes and characteristics of individual facilities.

[1] ANSI Z535.1-1998 makes the following recommendations relating to color usage in safety signage. These specifications have been omitted from more recent updates of the standard and no longer represent ANSI recommended best practices. Safety Red: for identifying danger and stop (examples: flammable liquid containers, emergency stop buttons, fire protection equipment). Safety Orange: for identifying intermediate level (warning) hazards and hazardous parts of machinery (examples: machine parts which may cause cut, crush or other injuries, moving parts such as gears, pulleys and chains). Safety Yellow: for identifying caution (examples: physical hazards such as tripping, falling, striking against and caught-in-between hazards, storage cabinets for flammable or combustible materials, containers for corrosives or other unstable materials). Safety Green: used for identifying emergency egress and first aid or safety equipment such as safety deluge showers, gas masks, and stretchers. Safety Blue: for identifying safety information used on informational signs and bulletin boards; also has specific applications in the railroad area to designate warnings against the starting, use of, or movement of equipment that is under repair or being worked on. Safety Black, White and Yellow, or combinations thereof, shall be used to designate traffic or housekeeping markings.

5S Floor Marking Color Standard

Use	As the border color for:
Yellow	Aisleways, traffic lanes and work cells
White	Equipment and fixtures (workstations, carts, floor stand displays, racks, etc.) not otherwise color coded
Blue, green and/or black	Materials and components, including raw materials, work-in-progress and finished goods
Orange	Materials or product held for inspection
Red	Defects, scrap, rework, and red tag areas
Red & white	Areas to be kept clear for safety/compliance reasons (e.g., areas in front of electrical panels, firefighting equipment, and safety equipment such as eyewash stations, safety showers and first aid stations.)
Black & white	Areas to be kept clear for operational purposes (not related to safety and compliance)
Black & yellow	Areas that may expose employees to special physical or health hazards.

Floor Marking Guidelines:

- **Use as few colors as possible.** This will make it easier for employees to remember the intended meaning of each color and reduce the number of floor marking products that must be kept in inventory.
- **Color coding workcell and equipment borders.** Some companies choose to mark equipment locations using the same color employed for aisleways and work cell boundaries. This has the benefit of simplicity. However, consideration should also be given to the fact that the overall layout of lanes and sectors within the plant is made more visually clear when different colors are used for these purposes.
- **Color coding material storage areas.** Use the same border color for all material storage areas unless there is an important reason for differentiating between raw materials, work in progress and finished goods. As an alternative, consider using one border tape color in conjunction with different colored labels to visually distinguish between the various material types.
- **Color coding non-material storage fixtures.** Floor markings for fixtures such as racks that hold raw materials, work in progress or finished goods should be color coded in green, blue and/or black. Otherwise use white or gray to mark the location of all other fixtures.
- **Color coding areas to be kept clear for safety and compliance.** Some companies use red or red-and-white stripes in front of firefighting equipment, and green or green-and-white stripes in front of safety equipment. For simplicity sake, however, we recommend standardizing on one color for all applications where the intent is to keep the area in front of equipment clear for safety or compliance reasons. That said, we also recommend that the firefighting and safety equipment itself - as well as any associated wall signage - be color coded using red and green, respectively, to enhance visibility and facilitate easy location of the equipment from a distance.
- **Color coding areas in front of electrical panels.** Under this standard, red and white should also be used to mark the floor in front of electrical panels. Some facilities use black and yellow to indicate the presence of an electrical hazard, but the primary purpose of the marking is to keep the area in front of the panel clear. Danger labels should be displayed on the outside of the panels to warn employees of potential shock and arc flash hazards.
- **Color coding operational "keep clear" areas.** Use black and white marking to indicate that an area should be kept clear for operational reasons, such as ensuring sufficient clearance for forklifts. As objects without a home tend to naturally congregate in open areas, employ black and white marking to discourage the use of open floor space for unintended purposes.
- **Color coding hazardous areas or equipment.** Black and yellow striped marking should be used as a border around any area or piece of equipment where employees may be inadvertently exposed to a special hazard. For example, use black and yellow borders around flammable or combustive material containers. The intent of the black and yellow border is to indicate that special caution should be exercised when entering and working in the area.

Examples

Aisleways & traffic lanes (yellow)

Work cells (yellow)

Equipment (white)

Material storage areas (green, blue and/or black)

QA inspection (orange)

Defects/scrap/rework (red)

Keep clear – operational (black/white)

Keep clear – safety (red/white)

Hazard area (black/yellow)

BRADY
WHEN PERFORMANCE MATTERS MOST™

ToughStripe® Floor Marking Tape

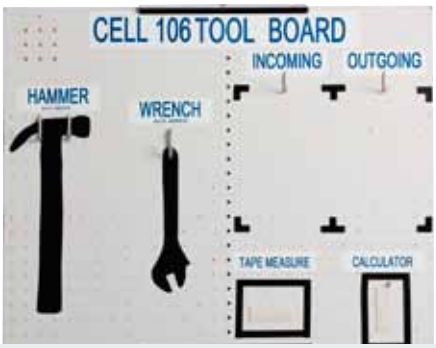
- Test-proven to withstand forklift traffic better than the leading competitors
- Easy application system makes laying smooth, straight lines a one-person job
- High gloss surface looks great and cleans up easily with common cleanser
- Comes in a variety of colors and shapes, including prespaced dashes and dots
- Also available as floor signs and as label media for use in Brady label printers

ToughStripe® material also runs through Brady GlobalMark®2 & BMP®71 printers, allowing you to create durable floor labels onsite and on demand!

See next page for more information on Brady label printers.

Toolboard & Workbench Marking Supplies

- Self-adhesive vinyl sheets and tapes designed for use on tool boards, work benches, storage shelves and other non-floor surfaces.
- Stick securely to a wide range of surface types
- Won't peel, crack or fade when exposed to common cleansers, solvents or sunlight



Quickly create tool shadows to exact size and shape using Brady's shadow vinyl

Create durable rectangular borders using Brady marking tape and corner marks

BRADY
WHEN PERFORMANCE MATTERS MOST™

Brady Label Printers

Brady label printers are essential tools for creating a visual workplace. Designed for industrial use, both printers and the labels created on the printers are designed to withstand harsh industrial environments.

Using labels together with 5S borders ensures that items are easily returned to their proper place.

	THE ULTIMATE VISUAL WORKPLACE SYSTEM	THE PERFECT 5S LABEL PRINTER			THE PORTABLE LEAN LABELER	
						
	GlobalMark®2 Industrial Labeler	**BBP®31 Sign & Label Printer**	**PowerMark™ Sign & Labeler**	**MiniMark™ Industrial Labeler**	**BMP®71 Label Printer**	**BMP®21 Label Printer**
Printer Specifications						
Tape Width	½" - 4"	½" - 4¼"	4" - 10"	½" - 4"	¼" - 2"	3/8" - ¾"
Built-in Display with keyboard	Yes	Yes	Yes	No	Yes	Yes
PC Connectivity	Yes	Yes and Stand Alone	Yes	Yes	Yes	No
Plotter	Yes (Color & cut only)	No	No	No	No	No
Color	Multiple Spot and Process Colors	Single Spot Color	Multiple Spot Color	Single Spot Color	Single Spot Color	Single Spot Color
Media Types	Indoor/outdoor vinyl, Repositionable vinyl, Poly tag stock, Magnetic, Reflective, Phosphorescent, Tamper Resistant, Metalized polyester, and more.	Indoor/outdoor Vinyl, Tag Stock, Reflective, Phosphorescent, Repositionable Vinyl, Raised Equipment Labels & more.	Indoor/outdoor vinyl,Poly tag stock, Reflective, Phosphorescent, Polyester, and more.	Indoor/outdoor vinyl, Tamper resistant, and more.	Indoor/outdoor vinyl, Repositionable vinyl, Economy polyester, Reflective, Tamper resistant, Raised panel, Wire & cable marking.	Vinyl, Self-laminating, Sleeves, Polyester, Wire & cable marking

All-In-One 5S Marking Kits

Everything you need to 5S your facility in one kit!

Brady's 5S Marking Kits provide everything you need to get started 5S'ing and color-coding your facility. Each kit contains an assortment of our most popular floor and workbench marking supplies. Kits that include a Brady portable label printer are also available.

Kits Contain:

Floor marking (1 roll each of yellow, red, blue, green)
- 2" floor marking tape (4 rolls)
- 2" L-shaped corner marks (4 rolls)

Toolboard / workbench marking
(1 roll each of black, red, blue, green)
- 12" shadow vinyl (4 rolls)
- ½" border tape (4 rolls)
- ½" L-shaped corner marks (4 rolls)

Kit with IDXPERT™ "Continuous Only" Label Printer:
- IDXPERT™ Label Printer
- Hard carrying case
- AC power adaptor
- 5 tape cartridges of various widths and colors

Kit with BMP®71 Label Printer:
- BMP®71 Label Printer
- Hard carrying case
- Charger / AC power adaptor
- 2" black and red ribbons (1 roll each)
- 5 rolls of tape of various widths and colors

BRADY
WHEN PERFORMANCE MATTERS MOST™

Visual-Lean eLearning Courses

Brady's Visual Workplace eLearning courses take the time and hassle out of training employees in lean concepts such as Visual Workplace, 5S Workplace Organization and Total Productive Maintenance.

No more time wasted preparing training materials or repeating the same training presentations over and over again! Employees can take the courses when they want and at their own pace, from any internet-enabled computer.

Each course emphasizes the proper use of visuals to reinforce standards, identify abnormalities and sustain improvements. Hundreds of photo examples are included to help stimulate ideas and self-initiative on the shopfloor.

- 24-hour course access via internet
- Each course takes approx. 30 minutes to complete
- Real-life application scenarios keep learners engaged
- Learning checks and quizzes ensure proper comprehension
- Progress and performance reporting available for managers

3 Courses Available

eLEARNING

1. **Introduction To Visual Workplace**
   Shows how visuals support lean initiatives by eliminating waste, establishing operational stability and sustaining continuous improvement. The second half of the course provides detailed best practices for creating and maintaining visuals.

2. **Visual 5S – Optimizing Workplace Organization**
   Provides a general overview of 5S and shows how 5S visuals can be used to maintain order and optimize efficiency.

3. **Visual TPM – Enhancing Equipment Reliability & Maintenance Efficiency**
   Provides a general overview of TPM and shows how TPM visuals can be used to simplify maintenance and detect equipment problems before they result in breakdowns.

How to Order eLearning Courses

Log on and simply add the course to your shopping cart! After purchasing, you will receive an email with a link to access your online course.

BRADY
WHEN PERFORMANCE MATTERS MOST™