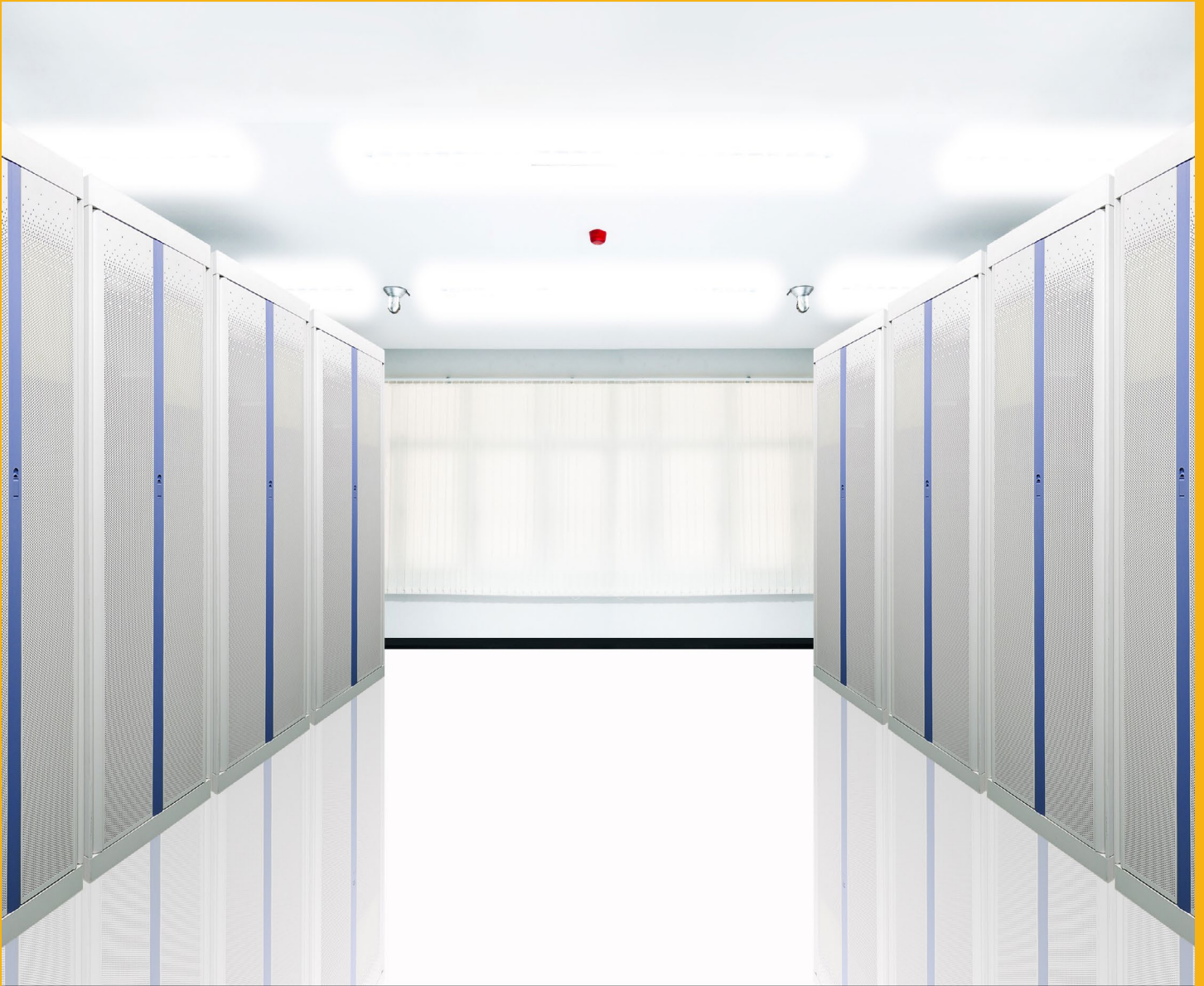




Sikafloor White Paper

Light Reflection and Improved Productivity
In Data Centers and Cleanrooms

BUILDING TRUST



SIKAFLOR®-3 QuartzTop Design

Light reflection and improved productivity

In recent studies, proper lighting has been cited as a key factor in increasing workplace productivity and employee satisfaction. As environmental aspects and green building solutions (Leeds certificate) have grown in popularity, lighting technology has dramatically improved and facility managers are incorporating these advanced, energy-efficient means of lighting into their operational expenses. However, there is one thing that the lighting engineers do not include in their calculations, and that is reflection.

In the manufacturing sector, a slew of studies have been conducted about manufacturing efficiency, especially in the field of labor productivity. All the environmental factors have been studied, although one impact factor has been overlooked - lighting.



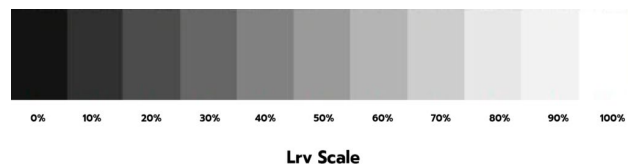
Efficient Lighting and Productivity

When evaluating productivity and energy savings, it is imperative to look at the LRV (Lighting Reflectivity Value) of the floors.

Using the lighting reflectivity scale for polished concrete shows not only the reflection but the color of the surface is a major part of lighting efficiency in the workplace. To obtain the white concrete floor reflection that is truly needed to increase illumination you need a polished floor with minimum of 75 DOI (Distinctness of Image). This should not be confused with gloss, as it is not the same.



Increasing these surface's LRV Scale percentage reduces the amount of light needed to achieve the desired illumination for the task at hand



When LRV is Increased 75%, facilities will see:

- Significant Energy Savings
- Reduced Human Errors
- Better Quality Control
- Improved Safety
- Enhanced Working Environment

These effects are documented in the ANSI, Lighting Standards Document, "Proper illumination is essential for the optimization of safety, comfort and productivity in the workplace; workplace lighting also dictates quality of perception, mood, and performance levels of employees."



White Polished Concrete or Epoxy?

Both white polished concrete and epoxy floor coatings are considered good choices for industrial floors and production facilities. Both systems are known to be budget-friendly, efficient, and promise to give a unique look to the floor.

The lifetime of epoxy depends on the traffic and the volume it must withstand, typically lasting between 10 to 20 years. A Sikafloor-3 QuartzTop Design floor can last up to 30 years and, most importantly, the cost of refurbishing a QuartzTop surface may only be a fraction of the epoxy refurbishing cost.

There are several factors to consider when deciding between a white polished concrete or epoxy floor:

- Intended Use of the Space
- Chemical Exposure/Resistance
- Impact and Abrasion Resistance
- Aesthetics
- Project Costs
- Maintenance Regimen

Sika's staff of flooring experts is always on hand to review your facility's requirements and will assist you in writing a flooring specification to select the correct and efficient flooring system.

SIKAFLLOOR®-3 QuartzTop Design

Transform Concrete Into A Design Statement

Sikafloor EasyFinish CS-30 - NO GRIND OR POLISH FLOOR HARDENER

Sikafloor® EasyFinish CS-30 is a high-performance dry-shake hardener flooring system designed for superior durability. Its patented application method allows multiple layers of dry shake for enhanced strength and reliability. The integrated finishing aid ensures a smooth, dense surface with improved hardness.



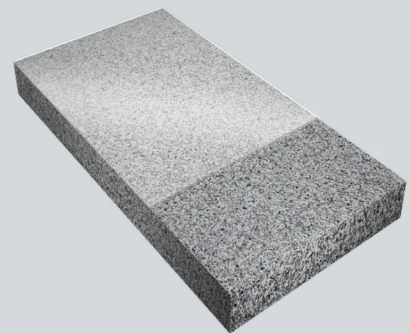
Sikafloor CreamPolish CS-31 - DECORATIVE CONCRETE FINISH

Transform ordinary concrete into a stunning, polished surface with Sikafloor® CreamPolish CS-31. This advanced flooring system delivers a sleek, creamy appearance by exposing only the finest particles of dry-shake aggregate during grinding. The result? A flawless Class A finish that combines beauty with durability.



Sikafloor TerrazzoEffect CS-32 - MICRO-TERRAZZO CONCRETE FINISH

Sikafloor® TerrazzoEffect CS-32 delivers a polished, terrazzo-inspired look with exceptional durability. Its patented application method allows multiple layers of dry shake for superior strength and aesthetics. A specially formulated finishing aid ensures consistent results, densifies the surface, and enhances hardness—perfect for high-traffic environments.



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