



Doyle Dickerson Terrazzo Presents

CASE STUDY: TERRAZZO IN AIRPORTS



TERRAZZO: TAKING OFF AT AIRPORTS AROUND THE WORLD

The landscape of the airport industry is different from it was nearly 20 years ago. Today airports and airlines from around the world now face challenges with providing the best travel experience for their passengers. Even the mildest delays can cause inconvenience and negative sentiment among customers; therefore, it is important to develop a customer-centric approach that gives passengers real-time information about their traveling situations and effective communication at all check points until it is time for a plane to take off. On top of improving customer service, airports also have to factor in safety precautions, facility maintenance and branding. In a time when airports are at their busiest, terrazzo steps in to cut costs and offer an aesthetic appeal.

Terrazzo consists of a chips in stone, shells, glass or other material mixed with a colored binder and poured in place. New airport construction projects are always on the horizon. Los Angeles International Airport (LAX). Dallas/ Fort Worth International Airport. Charlotte Douglas International Airport. These are just some of the busiest airports in the United States alone, with the FAA (Federal Aviation Administration) reporting over 20 million passengers boarding planes at these airports annually. Expect these numbers to continue growing in the years to come. That leaves airport executives determined to redesign terminals, baggage claims, lounge areas, and other areas of the facility to meet the demands of travelers

and benefit the facility long-term. From passengers taking on business trips, vacations, and holiday family gatherings, airports stay busy all year-long. As a result, airports strongly need a durable floor that will combat the high levels of foot traffic occurring daily. Terrazzo adds that special touch of durability. When properly maintained, terrazzo can last on average 75 years. The compressive strength of terrazzo is remarkable. Most terrazzo systems have a compressive strength of 4,500 psi, with some systems even surpassing those standards. That is enough strength to withstand heavy weight loads. The best thing about terrazzo's durability is that it is nearly indestructible, offering quality features such as

fire endurance, chemical resistance and low levels of fragility. No need for frequent repairs neither, making terrazzo the most cost-effective flooring system available on the market today. Ask your local terrazzo contractor for pricing. Let's not forget about wheeled luggage. Say good-bye to squeaky wheels as terrazzo eliminates the noise altogether. Seamless flooring transitions are also respectful to people in wheelchairs, which help accommodates them by removing any grout lines or uneven surface levels, making it easier for passengers to walk through a terminal. When considering the different features of terrazzo, it is easy decision for airports to make.



Thousands of travelers are seeing new upgrades to their local airports. Airports seek to minimize maintenance costs, add a touch of design, but most importantly, deliver a best-in-class traveler experience.

For those who have traveled before, they have likely experienced a stressful experience. The jet-lag, the delays, the slow check-ins or even the absence of amenities can make any person cranky. But airports are finding ways to accommodate a traveler's woes. One of the solutions is to providing travelers with a well-designed environment. With a need for flexible designs, terrazzo can aid in creating the perfect experience. Airports in the United States may not be as glamorous as other airports around the world, but architects are changing the way we view airports. The design capabilities of terrazzo are endless and truly benefits the airport. When passengers are seeking a seamless experience, designs can serve as

navigation guides for travelers, which makes moving through an airport much quicker and simpler. Airport floors are also serving as a blank canvas to display beautiful artwork. Many airports today are working with Art-In-Public-Place programs to enlist local artists to create a visual wonder for thousands of travelers to see as they move to their next destination. All around the world, airports are turning to terrazzo because it offers so much more than say a traditional material like carpet would. Terrazzo is truly allowing designers to engage local travelers. Designers can take a minimalistic approach and create a seamless beauty or go as far as to combine multiple colors, shapes and patterns. Many artists design

artwork that ties with the history and culture of a city. This leaves a good first impression for travelers visiting a city for the first time. By taking a moment to glance at these graphics, passengers feel a sense of belonging or comfort during their visit. It's a nice transition from the air to an actual destination. By installing terrazzo, airports are taking a giant step forward in providing not only a better design but also a cleaner, accessible and more interesting experience for the passenger. The United States are known for establishing the first airports around the world. With age starting to show in some designs, architects are making the necessary alterations. Everything comes down to first understanding the needs of the passengers.



Northwest Arkansas Regional Airport

Location:
Bentonville, AR

Contractor:
Milestone Construction Company

Architect:
Wittenberg, Delony & Davidson

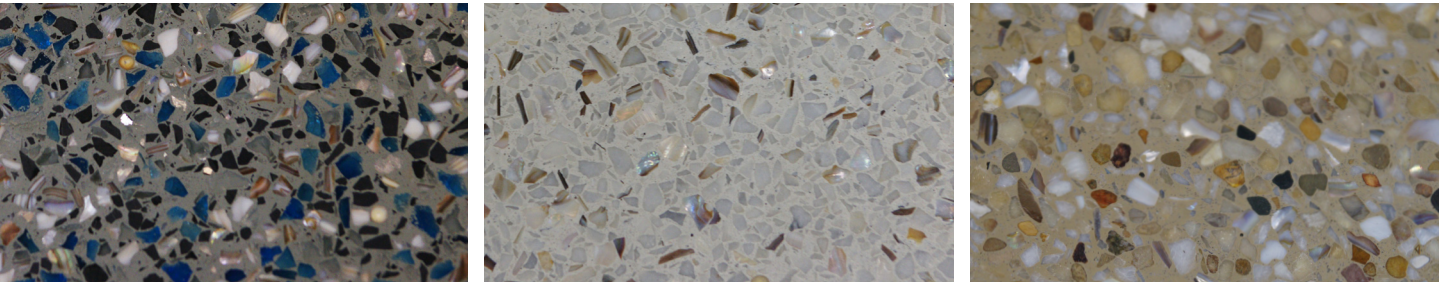
Scope:
Epoxy terrazzo

A Welcoming Sight

Northwest Arkansas Regional Airport upgraded its terminal which includes renovation to the lobby, terrazzo flooring at the airport's entrance, and a remodeling of the bathrooms. 1,242 square feet of epoxy terrazzo was installed by the entrances, greeting all passengers with a beautifully designed floor,.



The Mix Design



The beauty of terrazzo is that you can create any design. Architects can decide on using as many as a single epoxy color for a seamless floor finish or multiple epoxy colors to give the floor a creative touch. An airport floor is a blank canvas waiting for an architect to create a work of art. For the terrazzo floors at Northwest Arkansas Regional, four different epoxy colors make up the design. When taking a closer look at the design, you may notice the tiny specks included. These are aggregates. Today terrazzo can consist of a variety of aggregates such as marble, quartz, pre-consumer recycled glass, post-consumer recycled glass and exotic seashells like the popular Mother of Pearl. One of the reasons architects consider using terrazzo in an airport's design is due to the fact that the material uses renewables. This goes a long way in establishing a sustainable floor. For this particular design at Northwest Arkansas Regional Airport, the installation team uses a variety of terrazzo chips from white and black marble stones, single side mirror glass and Mother of Pearl. Northwest Arkansas Regional Airport is working diligently to improving flight delays, but the airport also strives to have a good appearance when passengers do visit.



Using Graphics to Tell a Story

According to Thornton Construction Company, Inc. the artwork reflects the human journey. Inspired by the writings of John Steinbeck and Loren Eiseley's essay "The Star Thrower," the artwork uses themes of human history and discovery. Many of the graphics seen in the terrazzo floors are made out of brass, cut to the finest details using a water jet machine. Designers can include any logo or lettering into their floor design and a water jet is programmed to accurately cut through metals like zinc, aluminum and brass.

The images at Fort Lauderdale International Airport tell a distinct story of a traveling human. Whether by air, land or sea, we are on a journey that leads us to a destination. Passengers will have the opportunity to catch a glimpse of these images as they walk through the corridors. The artwork also features graphics of the local marine life associated with the ocean surrounding the Florida coast. By including a beautiful terrazzo design, Fort Lauderdale International Airport's renovation is a more efficient and pleasant experience for all passengers.

Fort Lauderdale International Airport finds the perfect way to represent its city. For them, this is more than just an airport. It is a hub that bring together travelers from different backgrounds and cultures, and shares a bit of what it is like to be from Fort Lauderdale through the images in the terrazzo floor. No matter if you live an hour away in Miami, Florida or visiting from across the world, the terrazzo floor welcomes all.

Fort Lauderdale International Airport

Location:
Fort Lauderdale, FL

Contractor:
Thornton Construction Company, Inc.

Architect:
Singer Architects

Scope:
Epoxy terrazzo

Rainbow's End

Passengers certainly do admire the new terrazzo floors over the outdated carpet that was originally the airport's flooring over the previous decades. The change to terrazzo flooring allowed the architects to create a floor design that was truly reflective of the Fort Lauderdale area. Their work is something wonderful for travelers to look at and admire as they move through the airport to reach their next destination.

The terrazzo floor design is a unique addition to the airport. The design serves to maintain an organized traffic flow and guide travelers to focal points of their travel experience. This was done with free-flowing lines. Also, Fort Lauderdale is known for its surrounding beaches. To convey this imagery, artists presented a layout of the Atlantic Ocean converging with the local marshes, everglades, beaches and the sky. For its work of art, the Fort Lauderdale International Airport won the Harry H. Mellon National JOC Award in 2014.



Southwest FL Airport GA Terminal Building

Location:
Fort Myers, FL

Contractor:
Owen Ames Kimball

Architect:
Schenkel Shultz

Scope:
Epoxy terrazzo
Pre-cast Stair and Risers

History Meets Modern Day

Page Field started as an Air Force Base during World War II. Today it serves as a general aviation terminal that honors the airport's history with its array of historical posters and memorabilia throughout the facility. One of the welcome additions is the terrazzo flooring, which connects the main lobby to the car rental center, cafe and gift shop.

Terrazzo is a timeless beauty. The flooring addition to this facility is a reminder of the dedicated soldiers who served their country. The terminal is museum-like, giving passengers a comforting experience as they wait for their next flight. The epoxy terrazzo floor covers both the lower level and top-level flooring, with a pre-cast treads staircase connecting the two levels.





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