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The incorporation of KOLORMIX Asphalt in bike lanes presents a holistic approach to enhancing urban cycling infrastructure. From improving safety and visibility to fostering community pride and economic benefits, the advantages are substantial.

As cities strive to promote sustainable transportation, the colorful transformation of bike lanes offers an essential step toward encouraging a healthier, more connected, and vibrant community. The future of urban mobility is colorful, and the time to embrace it is now.

As societies look to innovate and evolve their urban landscapes, KOLORMIX asphalt emerges as an exciting and practical solution. It offers not only functional benefits in terms of safety and temperature regulation but also enhances the beauty and identity of public spaces.

KOLORMIX asphalt on our environments and communities will grow in significance, paving the way for more inclusive, safer, and visually appealing urban experiences.

By making cycling more appealing and safe, cities not only pave the way for healthier populations but also cultivate a more connected, vibrant community. As more urban centers explore this trend, the colorful future of our roads may soon become a reality.

KOLORMIX is business unit of:

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In recent years, cities across the globe have embraced the concept of dedicated bike lanes to promote cycling as a sustainable mode of transport. Among the various enhancements to these lanes, the use of colored asphalt has emerged as a prominent feature. Color asphalt bike lanes offer numerous benefits, improving safety, increasing visibility, fostering community engagement, and promoting a healthier lifestyle. This article delves into the multifaceted advantages of incorporating color asphalt in cycling infrastructure.

Enhanced Safety for Cyclists and Motorists

One of the foremost benefits of color asphalt bike lanes is the significant enhancement of safety for both cyclists and motorists. The vibrant colors used in these lanes create a clear visual distinction between the biking and vehicular traffic. This separation helps to prevent collisions and reduces the risk of accidents. By delineating space clearly, colored lanes allow drivers to recognize bike lanes quickly, encouraging them to maintain a safe distance from cyclists.

Moreover, brighter and contrasting colors tend to increase awareness among all road users. This heightened awareness can lead to fewer incidents of “dooring” (when a car door opens into the path of an oncoming cyclist) and better overall adherence to traffic rules.

Increased Visibility Under Various Conditions

Color asphalt can significantly improve the visibility of bike lanes in various weather conditions and times of day. While traditional asphalt may blend in with the surrounding environment, a bold color such as green or blue stands out, making it easier for pedestrians and drivers to spot cyclists.

During low-light conditions, such as at dawn, dusk, or in inclement weather, colored lanes remain identifiable, providing cyclists with a safer riding experience. Enhanced visibility is especially crucial in urban areas where vehicle congestion can lead to careless driving.

Encouragement of Cycling and Active Transportation

The introduction of color asphalt bike lanes can create a more inviting atmosphere for cyclists. Brightly colored lanes can make cycling feel more attractive and legitimate, encouraging more individuals to take up cycling as a means of transport.

As more people opt for bikes over cars, cities can experience decreased traffic congestion, leading to improved air quality and reduced carbon emissions. Color-coded lanes serve not only cyclists but also build a culture of active transportation and commitment to healthier living.

Community Engagement and Awareness

Colored bike lanes can act as a focal point in urban planning and community identity. They invite public discussions about cycling infrastructure, sustainable transportation, and urban development. Colorful biking infrastructure can be used as a tool for community engagement, prompting local governments to run awareness campaigns about the importance of bike safety and sustainable transport.

Artists and community groups can also engage in the design aspect of bike lanes, infusing them with local culture and character. Vibrant colors and unique designs can transform ordinary streets into public art spaces, sparking community pride and encouraging a sense of ownership among residents.

Maintenance of Road Infrastructure

Beyond the aesthetic and safety benefits, colored asphalt has practical advantages regarding road maintenance. Unlike paint, which can wear away and require frequent touch-ups, colored asphalt provides a long-lasting solution that withstands the wear and tear of traffic. It typically requires less upkeep than traditional painted lanes, allowing municipalities to allocate resources more efficiently while ensuring that bike lanes remain safe and visible.

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The Advantages of KOLORMIX Asphalt

Asphalt is a versatile and widely used material that plays a crucial role in construction and infrastructure development, particularly in pavement and roofing applications. From highways and parking lots to rooftops and waterproofing systems, asphalt provides a range of benefits that highlight its utility and effectiveness. In this article, we will explore the key advantages of asphalt material and why it continues to be a top choice in various industries.

Cost-Effectiveness

One of the most significant advantages of asphalt is its cost-effectiveness. Compared to other paving materials like concrete, asphalt generally has a lower upfront cost. The installation of asphalt surfaces can often be completed faster, which reduces labor costs associated with construction. Additionally, the maintenance of asphalt surfaces is straightforward and less expensive. Routine seal coating and minor repairs can significantly prolong the lifespan of asphalt pavements without demanding considerable financial investment.

Durability and Longevity

Asphalt is inherently durable and designed to withstand the rigors of daily use. It can resist heavy loads, making it ideal for highways and commercial parking lots that experience heavy traffic. When properly maintained, asphalt surfaces can last up to 20 years or more, making it a reliable option for long-term applications. Furthermore, advancements in technology have produced improved asphalt mixes that enhance durability and performance under various weather conditions.

Flexibility in Application

Asphalt's flexibility extends beyond its physical properties. It can be easily molded and shaped during installation, accommodating a variety of designs and uses. From smooth pavements to intricate roofing systems, asphalt can adapt to different construction needs. This versatility also allows for the integration of recycled materials, promoting sustainable practices and reducing environmental impact.

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Quick Installation and Accessibility

Asphalt surfaces can be installed efficiently, with minimal disruption to public or business activities. The quick curing time of asphalt means that newly paved roads and parking lots can be opened to traffic shortly after installation. This advantage is particularly beneficial in urban areas where construction timelines can pose significant challenges to daily operations.

Sustainability and Recyclability

Modern asphalt is increasingly being produced with sustainability in mind. It can be recycled and reused, making it an environmentally friendly option. Old asphalt can be reclaimed, processed, and used in new asphalt mixes, reducing the need for virgin materials. This recycling process contributes to lower carbon emissions and conserves natural resources, aligning with global efforts to promote greener construction practices.

Smooth and Quiet Riding Surface

Asphalt provides a smoother surface compared to other paving materials, leading to improved vehicle handling and comfort. This smoothness not only enhances the driving experience but also contributes to noise reduction. Roads paved with asphalt are generally quieter than concrete roads, making them more suitable for residential areas and reducing noise pollution.

Weather Resistance

Asphalt is designed to withstand various weather conditions. It offers excellent resistance to rain, snow, and UV radiation, which helps maintain its integrity over time. In addition, the dark color of asphalt helps it absorb heat from sunlight, aiding in quicker snow and ice melting during winter months. This feature reduces the risk of hazardous driving conditions caused by slippery surfaces.

Aesthetic Options

Asphalt surfaces come in various colors and finishes, allowing for customization that meets aesthetic requirements. This versatility provides architects and designers with the ability to create visually appealing landscapes without sacrificing functionality. Furthermore, the ability to incorporate patterns and textures enhances the visual impact of asphalt installations.

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KOLORMIX Asphalt is a specially formulated blend of heat-stable and UV-resistant powdered mineral pigments and aryl hydrocarbon bitumen Binder that is mixed into the aggregates engineered for use in either hot or warm asphalt mixes, as well as slurry coats.. KOLORMIX Asphalt has 15 color variations and can be customized to meet the needs of customers.

KOLORMIX Asphalt is engineered to withstand various environmental factors, including sunlight (UV radiation), weather conditions and traffic loads, which can impact the colour, vibrancy and the overall performance of the pavement.

KOLORMIX combines high-quality, UV-resistant mineral pigments with excellent colour fastness properties to maintain colour intensity over time and preserve the colour and longevity.

KOLORMIX is an excellent choice for a variety of applications, thanks to its cost-effectiveness, durability, flexibility, quick installation, sustainability, smooth surface, weather resistance, and aesthetic options.

As the demand for efficient and environmentally friendly pavement materials continues to grow, KOLORMIX Asphalt stands as a reliable option that meets the needs of various industries while contributing positively to infrastructure development. Whether for road construction, roofing, or other applications, asphalt remains a preferred choice built on a foundation of practical benefits that ensure long-lasting value.

- ENHANCED SAFETY
- DESIGN FLEXIBILITY
- LONG-LASTING
- WORKABILITY
- QUALITY ASSURED
- TAILORED TO YOU

Enhanced Aesthetics

One of the most immediate benefits of colored asphalt is its ability to elevate the aesthetic appeal of public spaces. Whether used in parks, bike paths, or pedestrian areas, colored asphalt allows for creative design opportunities that can revitalize neighborhoods. Vibrant colors can delineate pathways, parking areas, and recreational zones, creating visually engaging environments that encourage community interaction and use. This aesthetic enhancement not only improves the attractiveness of urban spaces but can also increase property values and boost local economies.

Improved Safety and Visibility

Safety is a paramount concern in urban planning, and colored asphalt plays a crucial role in improving visibility. Bright colors can help delineate lanes, crosswalks, and bike paths, reducing the likelihood of accidents and ensuring a safer environment for both pedestrians and motorists. For example, using red or green asphalt in bike lanes not only visually separates the lanes from vehicle traffic but also makes them more visible to drivers, promoting safer coexistence on the roadways. Additionally, lighter colors can reflect more light at night, further enhancing visibility and safety during low-light conditions.

SPECIFICATION	UNIT	VALUE	METHOD
Penetration (25°C, 100g, 5 sec)	0.1 mm	60 - 80	ASTM D5
Softening Point	°C	Min 42	ASTM D36
Ductility, 15°C, 5cm/min	cm	Min 100	ASTM D113
Ductility, 10°C, 5cm/min	cm	Min 20	ASTM D113
Flash Point	°C	Min 260	ASTM D92
Density, 15°C	kg/m³	1.000/1.060	ASTM D70
Dynamic Viscosity 60°C	Poises	Min 130	ASTM D2171
Solubility in Trichloroethylene	WT%	Min 99.5	ASTM D2042
Penetration Index	-	-1.5/1.0	-
AFTER TFOT AT 163 ˚C ASTM D1754			
Loss of Weight	-	0.8/0.8	ASTM D1754
Retained Penetration Ratio	%	Min 61	ASTM D5
Ductility, 10°C, 5cm/min	cm	Min 6	ASTM D113

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CHARACTERISTICS

The **KB3 Binder** developed by KOLORMIX Asphalt is an Aryl Hydrocarbon Bitumen based binder engineered for use in the production of coloured asphalt by hot mix process making it an ideally strong and flexible binder for high performance asphalt projects. KOLORMIX Asphalt products can be designed to meet specific purposemand to provide a strong and durable coloured pavement solution.

Available in Red, Green, Blue, Yellow & Grey primary colour. Other colours may be produced on customers request

Application

- Roads
- Driveways
- Cycle lanes
- Footpaths and pedestrian areas
- Playgrounds
- Architectural applications
- Commercial applications
- Prestige schemes
- Etc.

RECYCLABLE: 100% of the product can be recycled thus reducing the amount of material that is sent to landfill.

MANUFACTURING LOCATION: Produced in the Philippines, with locally sourced materials under strict environmental complience, for local supply.

KOLORMIX Asphalt can be installed efficiently, with minimal disruption to public or business activities. The quick curing time of asphalt means that newly paved roads and parking lots can be opened to traffic shortly after installation. This advantage is particularly beneficial in urban areas where construction timelines can pose significant challenges to daily operations.

The process involves combining binder and aggregates, which usually consist of crushed stone, gravel, or sand. The asphalt binder is responsible for holding together the aggregates, forming a hard, solid, and durable material.

Application Methodology

- Heat aggregates in the ratio given above up to 140°C.
- KB3 Binder and KP4 color pigment in the heated aggregates and mix well by heating in the hot mix plant to above 150°C.
- Apply KA17 Primer over old bituminous or concrete pavement surface or KA18 for new bituminous pavement.
- Spread the hot mix at 140 - 150°C to ensure finished compacted surface.
- Compact until all roller marks have been removed from finished surface (Moist roller wheels with water during compaction. Water may be sprayed on surface to pavement hot mixture adhering to wheels.
- Clean all mixing, spreading and compacting equipment to ensure they are free from black bituminous contaminants, if any.

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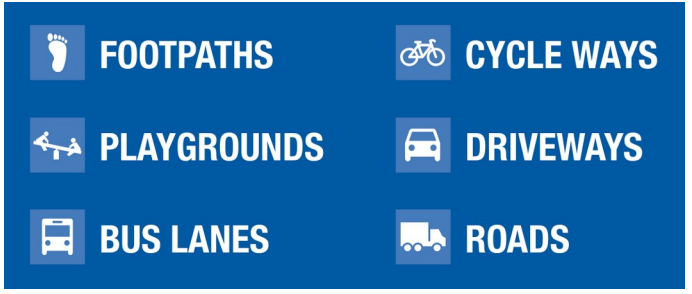
Advantages :

- Cost-Effectiveness
- Enhanced Aesthetics
- Improved Safety and Visibility
- Quick Installation and Accessibility
- Sustainability and Recyclability
- Durability and Longevity
- Environmental Sustainability
- Smooth and Quiet Riding Surface
- Customizability and Versatility
- Promotion of Multi-Modal Transportation
- Weather Resistance



KOLORMIX team of experts specialize in the surfacing works of bike lanes, roads, driveways, footpath and other hard-standing areas including any ancillary construction.

Surfacing services includes; Asphalt Laying , Onsite Mixing, Site Preparation, Base Installation, Asphalt Application, Compaction, Sealing & Logistics.

We cater anywhere in the Philippine. Contact us for assessment and estimate.

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