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国家高新技术企业 HI-TECH

典型案例分析  
Typical case

BRT快速公交系统——公交专用车道设计  
Bus rapid transit design for bus accommodation lane

海川工程科技有限公司推出的道路彩化综合解决方案（包括改善型、防滑型）来解决BRT快速公交系统中公交车专用道路与其他机动车道路的隔离，标示专用路权并提供美观的道路环境。

The Institute of Road Technology in Oceanpower Engineering Technology Co.,Ltd. has explored the synthesis solution for coloring road (including improvement type, skidproof type). It can separate BRT bus accommodation lane from common motor lane, mark the right of road, and beautify the environment.



BRT快速公交系统路面  
SOLUTION FOR COLORING BUS RAPID TRANSIT ROAD  
彩色解决方案

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**城市道路的彩化解**  
决方案综合考虑了道路的功能性，对环境的影响，以及司乘人员的心理，通过合理的道路色彩设计和环境景观搭配设计，使城市道路具有引导交通，美化环境，给人视觉享受的作用。

*The solution for coloring urban road has synthetically considered the functionality of the road, the influence on environment, as well as the mentalities of drivers and passengers. By the reasonable road color design and environmental landscape matching design, it enables the urban road to have the functions of relieving traffic, beautifying environment, and giving people visual enjoyment.*

### 定位方案步骤： The plan steps for locating



**1、城市道路定位**  
Locating urban road



**2、通过环境色彩（照明、建筑等）确定路面色彩选取**  
Selecting the road color by environment color (illumination, construction, etc.)



**3、结合客户要求指定方案**  
Confirming the plan combined with the customer requirements



**5、路面色彩实现**  
Coloring road



**4、论证方案可行性**  
Feasibility study on the plan

### 应用领域 Application Area



**1.街道拐角**  
Corner of the road



**4.停车场**  
Parking lots



**2.BRT公交专用车道**  
BRT accommodation lane



**5.环行路**  
Ring road



**3.减速带**  
Deceleration lane



**6.交叉路**  
Road intersection

随着经济水平的提高，机动车的数量越来越多，导致道路交通拥堵现象日趋严重。在很多大城市中，交通问题已经成为人们出行的首要问题，解决目前拥挤的城市道路已经势在必行，国内外已经考虑甚至建立了BRT（Bus Rapid Transit）快速公交系统，这是一种介于轨道交通与常规公交之间的高质量，快速舒适、低成本、灵活便捷的新型城市公共交通方式，利用现代技术使传统的公交系统达到轨道交通的服务水平。BRT快速公交系统建在道路中央，并设置专用车道。在BRT专用车道中用彩色沥青路面以示区分，不仅能增加道路的美观性，而且也能引导交通，使公交车辆和社会车辆各行其道。

*Along with the development of economy, the amount of vehicular is increasing and thus leading to the serious traffic jam. In many big cities, the traffic problem has become the prominent problem that affects people's traveling. In order to relieve the traffic congestion in the streets, international and Chinese governments have discussed building BRT, some of them even already have built it. BRT is a newly urban public transportation system which is different from rail traffic and regular bus transportation. It has the characteristics as high quality, speediness, comfort, low cost, agility and convenience. Applying the modern technology, it makes the service level of traditional transportation system reach the one of the rail traffic. As an accommodation lane, BRT is built in the center of the road, which is distinguished from common road with multicolor asphalt. That will not only improve the scenery of the road, but also release the traffic.*

### 改善型 - 路威彩色沥青 Improvement type Roadpower multicolor asphalt

- ◆ **色彩丰富**（可根据城市环境和客户的要求选择不同的色彩搭配）  
Abundant colors  
Providing the different colors according to the city environment and the customers' requirements.
- ◆ **性能优越**（其混合料各项技术指标满足《公路沥青路面施工技术规范》）  
Excellent performance  
All the technical parameters of the asphalt mixture can meet the requirement of "Standard Specification for Construction and Acceptance of Highway Asphalt Pavements".
- ◆ **绿色环保**（能有效降低黑色沥青挥发出来的3~4苯丙衍生物等致癌物质）  
Environmental protection  
It can effectively reduce carcinogens commonly existed in black asphalt, such as 3-4 Styrene-acrylic derivant.

#### 路威彩色沥青胶结料性能指标

Performance index of Roadpower multicolor asphalt binder

项目	Item	单位	Unit	OP-50	OP-70	OP-90
针入度	Penetration (25°C, 100g, 5s)	0.1mm	cm	40-60	60-80	80-100
				≥100	≥100	≥100
延度	Ductility	cm	cm	≥20	≥25	≥45
				≥20	≥25	≥45
软化点	环球法	℃	℃	≥56	≥60	≥65
	机动车道					
	Softening point (ring-ball method)					
	Motor way					

#### 路威彩色沥青混合料路用性能指标

Performance index of Roadpower multicolor asphalt mixture

胶结料用量	混合料用途	试件击实次数	稳定度	流值	残留稳定度
Binder content (%)	Application of mixture	Number of blow Marshall compaction	Stability (KN)	Flow value (0.1mm)	Retained stability (%)
6.0	机动车道	双面击实75次	6.7	29	83.5
	Motor way	Double blow Marshall compaction for 75 times			

### 防滑型 - 路威彩砂防滑路面 Skidproof type Roadpower multicolor pavement with skidproof surface

路面湿滑是造成交通事故的最主要原因之一，在事故高发段铺装彩砂防滑路面是减少事故发生率的有效手段。

*The wet and skid road surface is one of the main reasons that cause traffic accidents. Paving multicolor pavement with skidproof surface is an effective means to reduce accident rate in the accident frequent-occurring section.*

路威彩砂防滑路面是一种树脂基路面防滑系统。包括特殊配方改性的树脂基粘合剂和各种不同规格的彩砂，我可能够提供红、绿、黄等几大色系的道路面层，色彩丰富、持久。

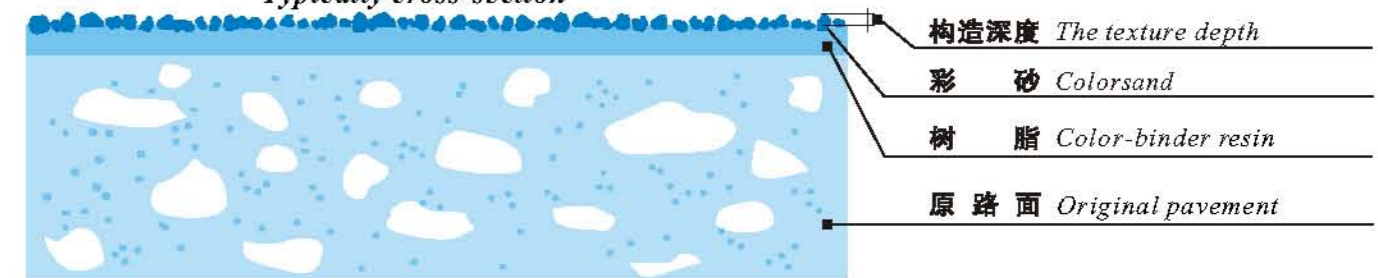
*Roadpower multicolor pavement with skidproof surface is a kind of resin-base pavement skidproof system. It includes modified resin-base binder and color sand in various dimensions. Our company can supply the surface course in four-color systems of red, green, yellow, and blue. The color is abundant and persistent.*

路威彩砂防滑路面的一般断面结构图如下：

*The general cross-section structure drawing of Roadpower multicolor pavement with skidproof surface is as follows:*

#### 典型断面图

Typically cross-section



注：  
1. 构造深度1.6-2.0 mm  
The texture depths 1.6-2.0 mm.  
2. 拉伸粘接强度1.0-1.3 N/mm²  
The tension-bond strength of the Color Binder resin is 1.0-1.3N/mm².