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**Info**

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**Adhesive Resin**

For Steel Reinforced  
Polyethylene Spiral Corrugated Pipe

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Safely Operation for  
more than 140,000 hours



## Global Functional Polymer Materials Manufacturer

Banzan International Group is focus on the functional adhesive resin of composite structure product. Banzan has three wholly invested subsidiaries and one holding subsidiary, and two R&D centers in Shanghai, China and Boston, USA.

We focus on providing the entire solutions from entire pipeline production to key materials, connection, installation, aging testing, intellectual operation, standards, technical specification other than import such technology in order to maximize clients economic efficiency.



# Adhesive Resin For Steel Reinforced Polyethylene Spiral Corrugated Pipe

Growing lifestyles and plastic consumption require a wider variety of composite materials.

Banzan GS series used in steel reinforced polyethylene spiral corrugated pipe for underground sewer is the bridge between galvanized steel strip and high density polyethylene (HDPE), which solves the problem of lack of connecting factor between them, the compound between galvanized steel strip and HDPE is good enough due to the existence of adhesive.

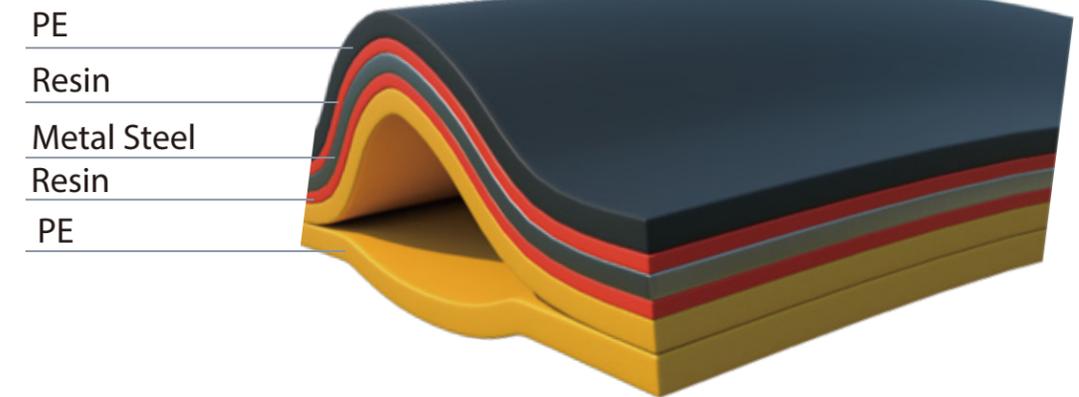
## Performance Properties of Adhesive

Product Name : Adhesive Resin

Test Items	Test Method	Units	Typical Value
Vicat Softning Point	ASTM D1525	°C	112
Brittleness Temperature	ASTM D746	°C	- 72
Melt Index	ASTM D1238	g/10min	3.6
Tensile Strength	ASTM D638	Mpa	15.6
Elongation at Break	ASTM D638	%	500
Density	ASTM D1505	g/cm <sup>3</sup>	0.93

These technical data only reference and not intended as specification!

By coating an intermediate layer of bonding adhesive resin between the steel rib and HDPE, the steel rib and HDPE are closely bonded together, successfully solving the problem of no linking factor between the steel strip and HDPE and making it have excellent composite effect.



## Properties

- Strong adhesive strength with galvanized steel strip.
- Advanced compatibility between HDPE.
- Great Long-term stability.
- Outstanding processability, especially used in coating process of galvanized steel strip.
- Advanced soak resistance performance.



## Investing in U.S Adhesive Technology

Banzan invested more than 6 million USD as the first-stage fund to set up a world-class R&D center at Boston,USA. The center which is equipped with most advanced equipment, such as Haake torque rheometer, scanning electron microscope and ICP spectrometer.



## Our Achievement Makes Us More Competitive

Banzan has declared more than 100 + invention patents, more than 30 have been authorized; Participated in the formulation of 5 national standards, 4 industrial standards and 1 local standard



Banzan Cooperations  
Getting Better,  
Together.