

Shenzhen Jianghe New Materials Technology Co.,Ltd

Technical Data Sheet (TDS)

Room 1008, Building 1, Cofco Yunjing, Martin Street, Heshui Kou
Community, Guangming District, Shenzhen, China, 518107
Tel: +86-13418798686 | Email: zigang.lei@jh epoxy.com
Website: <https://jhresin.en.alibaba.com/>

Doc No.: EPR-2120AB-K26-
TDS-001

Issue Date: 2025-05-30

Revision: 1.0

2120AB-K26

Product Description

This product is a high-strength, eco-friendly epoxy binder specifically designed for aggregates (such as quartz and colored sand). It features low odor, excellent compatibility with sand, and strong adhesion. Upon curing, it offers high compressive strength, wear resistance, waterproofing, and weatherability, making it an ideal bonding material for indoor and outdoor aggregate landscape flooring.

Application Areas

Specially designed for the construction of colored permeable aggregate and terrazzo flooring; the creation of anti-slip walkways in landscapes and wear-resistant surfaces in business parks; commercial artistic colored flooring and decorative surfacing for leisure areas; and the installation of indoor and outdoor anti-slip pedestrian pavements with a stone-like finish.

Product Features

Excellent bonding with sand and gravel; resists shedding and dusting over long-term use. High mechanical strength, offering superior compressive and abrasion resistance for a long service life. Waterproof, stain-resistant, and easy to clean; requires minimal daily maintenance. Stable weather resistance for outdoor use—resists aging and fading from wind and sun exposure. Cures at ambient temperatures, allowing for flexible site application.

Physical & Chemical Properties

Property	Part A: 2120A-K26	Part B: 2120B-K26
Color	Pale Blue and Transparent	Colorless Transparent
Density (g/cm ³)	1.02±0.03	1±0.02
Viscosity (mPa•s)	1500±500	400±50
Brookfield DV2TRV Viscometer	25°C	
Mix Ratio (by Weight)	A : B=2 : 1	
Mixed viscosity (25°C, mPa•s)	600±50mPa.S	
Relative Humidity During Application	30%–75%	
Consumption	Recommended Maximum Adhesive Usage: 1.2 kg/m ² Recommended Minimum Adhesive Usage: 0.8 kg/m ²	

Curing Time

Temperature	Working Time	Surface-Dry Time	Full Cure
10°C	45min	14-16h	≥48h
20°C	30min	8-10h	≥36h
30°C	20min	6-8h	≥24h

Test Data

Test Item	Unit	Technical Specification	Test Standard
Hardness	Shore-D	80±3	GB/T 531.1-2008
Abrasion Resistance Grade	Grade		GB/T 1768-2006
Compressive Strength (Neat Resin)	MPa		GB/T 17671-2021
Yellowing Resistance Grade	300W UV Aging Test		GB/T 16422.3-2014
Aggregate Bonding Stability		—	GB/T 14683-2003
24h Water Absorption	Immersion Test		GB/T 10342008
Impact Strength	kJ/m ²		GB/T 1043.1-2021

Adhesion Strength	MPa		GB/T 5210-2020
-------------------	-----	--	----------------

Application Instructions

Ensure the substrate is solid, dry, and free of loose sand or oil stains. Thoroughly mix the adhesive with the aggregate until uniform. Quickly spread, level, and compact the mixture. Allow it to cure undisturbed for 24–48 hours until fully hardened.

Safety Precautions

1. Do not apply on soft or damp substrates; doing so may lead to large-scale sand detachment or surface dusting later.
2. Maintain the correct adhesive-to-aggregate ratio; insufficient adhesive causes sand detachment, while excessive adhesive results in a sticky surface that fails to dry properly.
3. During the curing period, protect the surface from foot traffic, rain, and water immersion.

Storage and Shelf Life

1. Storage Conditions: Store in a cool, dry, and dark place in a sealed container; storage temperature: 5°C–28°C.
2. Shelf Life (Unopened): 12 months.
3. Use as soon as possible after opening; prolonged exposure to air may cause moisture absorption and poor curing.

Note: The parameters above are based on standard environmental testing data. Variations in temperature, humidity, and mixing ratios may slightly affect curing results; actual performance depends on on-site conditions.