

TECHNICAL DATA SHEET

Solvent-Based Polyurethane Ceramic Aggregate

Henan Fuxin New Material Technology Co., Ltd. | Revised 5 October 2026

1 Product identification

Item	Description
Product name	Solvent-Based Polyurethane Ceramic Aggregate
Product category	Road surface anti-skid coating
Intended use	Anti-skid treatment of road surfaces
Tested sample appearance	Red liquid containing aggregate

2 Product description

Solvent-Based Polyurethane Ceramic Aggregate is supplied by Henan Fuxin New Material Technology Co., Ltd. for road surface anti-skid applications. The submitted sample was evaluated as a high anti-skid, slow-drying, cold-applied coating under JT/T 712-2008. The seven tested items met the applicable requirements stated in the report.

3 Packaging and application parameters

The following packaging, hardener dosage and application quantities are supplied by the manufacturer. Consumption values are reference quantities per square metre for a nominal 3 mm application thickness. Actual consumption depends on substrate condition and site losses.

Parameter	Manufacturer reference value
Polyurethane binder packaging	25 kg total: 20 kg binder + 5 kg hardener
Hardener dosage	Binder : hardener = 4 : 1 by weight
Reference application thickness	3 mm
Polyurethane binder on cement substrate	2-5.5 kg/m ²
Polyurethane binder on asphalt substrate	3-3.5 kg/m ²
Ceramic aggregate	Approximately 5 kg/m ²

Confirm application method and traffic reopening conditions by a site trial. Refer to the product label and Safety Data Sheet for storage conditions, protective equipment and handling precautions.

4 Laboratory test results

Source: report WT2025B01C00094G1, National Center for Testing of Building Materials, China Building Material Test & Certification Group Co., Ltd. Sample: Solvent-Based Polyurethane Ceramic Aggregate. Test period: 14 January to 2 March 2025. Assessment basis: JT/T 712-2008.

Test item	Requirement or condition	Reported result
Coating appearance	After drying: uniform color and aggregate distribution; no cracks or aggregate loss	Uniform color and aggregate distribution; no cracks or aggregate loss
Alkali resistance	24 h immersion in saturated calcium hydroxide solution; no abnormality	No abnormality after 24 h
Low-temperature crack resistance	3 cycles: -10°C for 4 h, then room temperature for 4 h; no cracks	No cracks after 3 cycles
Skid resistance	BPN ≥70	BPN 74
Binder condition in container	No lumps or skin; readily stirred	No lumps or skin; readily stirred
Binder adhesion by circle method	Grade ≤4	Grade 2
Non-tire-pickup drying time	≤5 h for slow-drying cold-applied type	1 h 30 min

All seven items were judged compliant. Test methods are recorded in the original report: JT/T 712-2008 clauses 5.3.1, 5.3.3, 5.3.4, 5.3.5, 5.5.1 and 5.5.4; JTJ 059-1995; Q/CYCTC 0070-2017; GB/T 3186-2006; GB/T 1720-1979 (2004); and JT/T 280-2004.

5 Scope of technical data

These values describe the submitted sample and do not establish guaranteed field working time or traffic reopening time. Report WT2025B01C00094G1 is a corrected supplement to WT2025B01C00094; the earlier report is superseded. This TDS summarizes the supplied report and does not replace it.