EAGLE8 Basic Performance List

Item		test reference Result document issuing	data EAGLE8	Features
1	Curing time		10－30(min)	Fast curing
2	Time to-service	JIS A1108 Compressive strength test Japan Testing Center for Construction Materials	P 17.7N/mm2(1hour) P 45.6N/mm2(3hour) P 58.2N/mm2(7days) P 67.9N/mm2(28days)	Strength comes out soon
3	Compressive strength	JIS A1108 Compressive strength test Japan Testing Center for Construction Materials	Q 55-70N/mm2 P 40-68N/mm2 S 40-60N/mm2 H 60-70N/mm2	2-3 times the normal concrete
4	Flexural strength test	JIS A 1171 Flexural strength test Japan Testing Center for Construction Materials	Q about 10N/mm² P about 8N/mm² H about 10N/mm²	More than four times the normal concrete
5	Strength test tensile concrete adhesion	Strength test tensile concrete adhesion Japan Testing Center for Construction Materials	Q 2.6－4.2N/mm2 H 3.1N/mm2	100 times the normal mortar. Primer unnecessary.
6	Strength test tensile steel adhesion	JIS A 6909 Strength test tensile steel adhesion Hanshin Expressway Engineering Company Limited	Q 1.2－3.5N/mm2	very good
7	Impact wear	By O-type abrasion tester, and coefficient scuffing Techno consultant co.	Q 810-910mm3/cm2 QC 710-740mm3/cm2	I have excellent impact wear Coefficient is half of the waterway for polymer cement scuffing
8	Salt damage resistance (Permeability of chloride	Chlorine ion permeability test USA PSI Lab.	Q 0.13% (3days) P 0.22% (3hours)	And less than one-third of the normal concrete permeability of chloride ion
9	Corrosion resistance	Promote corrosion test corrosion resistance University of North Carolina	Not seen any corrosion of the steel after 35 days	The anti-corrosion effect by phosphate passive film formation
10	Heat resistance	Heat test Muffle furnace test Japan Paint Inspection and testing Association	At 1000 ℃ 6 hours heating Cracking, peeling, no abnormality such as swelling	Are better
11	Fire resistance	Noncombustible matter test Japan Testing Center for Construction Materials	Q Noncombustible matter Ministerial approval NM-3877	Use of fire-resistant binder
12	Insulation	Thermal conductivity test Argonne National Laboratory	0.53w/m･k	Thermal insulation bricks par at twice the normal concrete
13	Abrasion resistance	JIS K 7204 Rotary abrasion test Hanshin Expressway Engineering Company Limited	Q 0.401g(Wear mass average)	Wear amount is less than one-tenth of the normal mortar
14	Cure shrinkage	JIS A 6916 Architectural base coating material adjustment Japan Paint Inspection and testing Association	under 0.05%	Without any cure shrinkage
15	Specific gravity	Specific gravity test Hanshin Expressway Engineering Company Limited	Q 2.02－2.04 P 2.02－2.07	Lightweight
16	pH	pH test Hanshin Expressway Engineering Company Limited	Q 9～10	Powder at the time: neutral, after curing: weak alkaline
17	Chemical resistance	Chemical resistance test Japan Testing Center for Construction Materials	Q immersed for 28 days in a solution of pH11 and pH3, change in shape, cracking, there was no warping and cracks. However, the surface is white discoloration. Smoothness is gone.	The strong acid, alkali
18	Coefficient of thermal expansion	Hanshin Expressway Engineering Company Limited	Q ≒ 1×10-5/℃ P ≒ 1×10-5/℃	
19	Freeze-thaw test	JIS A 1148 Freeze-thaw testing of concrete Japan Construction Method and Machinery Research	Q No fouling impairing the appearance Q -2.13% Slightly increased mass loss rate Q 59.7 → 49N / mm2 average compressive strength	Resistant to frost damage in the frozen region
20	Water absorption test	JIS A 1171 Water absorption test Japan Testing Center for Construction Materials	Q 2.4%(natural drying) P 11.6%(7days･Forced drying) H 12.2% (7days･Forced drying)	Denseness high
21	Hydraulic permeability	Motorized mortar permeability tester Hanshin Expressway Engineering Company Limited	Q 2.9(g) P 3.2(g) QC 3.1(g)	
22	Workability 1) low temperature construction 2) construction equipment 3) underwater construction		Heating of the reaction with water is 102.44 kilometers joules / mole Can be spray construction of wet-dry The curing even in water	Construction possible in the sub-zero Possible to use a spray, a roller or the like, as well as a casting I will also cured in water
23	Safety to human body	H12 notification of the Ministry Japan Food Research	Elution of toxic substances without detection result of heavy metals dissolution test	Hazardous materials are not included at all
24	Rate of fine holes	ANALYSIS CENTER CO.,LTD.		Fine hole was closed, but there are several,
25	Heavy metals dissolution test results	JIS K 0058-2 Chemical test method of slags INCORPORATED FOUNDATION OKINAWA PREFECTURE ENVIRONMENT SCIENCE CENTER		Hazardous materials are not included at all