

HYDROSTOP

SINGLE-COMPONENT POLYURETHANE/POLYUREA WATERPROOFING - NO.789

Specification Data

Type	Single component, moisture curing coating based on polyurethane/polyurea copolymer to provide a water proofing resistant barrier. Typically applied direct to concrete about 1mm. It also can be offered a sufficient protective barrier on carbon, stainless steel with different epoxy primer, the operate temperatures ranging up from 80°Cto -40°C.		
Uses	Waterproofing for rooftop, balcony, bathroom, sky garden and planting areas.		
Characteristics	<ol style="list-style-type: none">1. Excellent adhesion.2. Film is tough, high elastomeric and impervious.3. Single component product, easy to use.		
Color	Iron-Gray		
Primer	Carbon Steel	EP-116 Epoxy Multipurpose primer	
	Stainless Steel	No.1020 Epoxy Alloy Primer	
	Concrete Surface	No.785 Single Component Primer	
Subsequent Coats	No.781		
Repair	Self Repairing		
Viscosity	2000~8000 cps (25°C)		
Volume Solids	Above 90%		
specific weight	1.3~1.4		
Typical Thickness	1-2 mm per coat		
Theoretical Coverage	Average coating area of per set of 1.4 Kg are about one square meter(1mm). (reference value)		

Performance Data

Test Item	Test Method	Test Result
Hardness(Type A/1 sec)	ASTM D2240-15	40
Tensile Strength (kgf/cm ²)(23°C)	ASTM D412-16	23.8
Elongation (%) (23°C)	(Die C , V=500mm/min)	720
Tensile Strength (kgf/cm ²)(80°C)	Ref. ASTM D412-16	12.5
Elongation (%) (80°C)	(Die C , V=500mm/min)	200
Tensile Strength (kgf/cm ²) (- 40°C)		111
Elongation (%) (- 40°C)		> 350
Adhesion Strength (kgf/cm ²)	Mortar ASTM D4541-09 ^{e1}	14.8
	Steel plate Method E, TypeV	24.4
Tear Strength(kgf/cm)	ASTM D624-00(2012) (Die C , V=500mm/min)	11.4
Water Resistance(70°C ; 48 h)	Ref. ASTM D471-16a	No abnormality
Chemical Resistance (23°C ; 24 h)	5% NaOH	No abnormality
	5% H ₂ SO ₄	No abnormality
	5% HCL	No abnormality

Test reports and additional data available upon written request.

Certification

CNS 6986 : (SGS Taiwan Ltd)

Application Instruction

● Surface preparation

General

Remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. Surfaces must be clean and dry. Moisture, grease, sludge, dust, corrosive salt must be thoroughly cleaned from substrate.

Concrete

The water content of new cement surface have to under 12% before applying.

Carbon Steel

Surface preparation standards can be used SSPC-SP10 、 Sa2 1/2 (ISO 8501-1:2007) or hand

Galvanized and Austenitic/Duplex stainless

The galvanized or stainless steel must be sand blasted to SSPC- SP16 before application. Dense angular for stainless and galvanized steel surface requires above 1 mil.

● Methods

Can be applied by brush, roller or trowel.

Environment conditions

Industry standards are for substrate temperatures to be 3°C(5°F) above the dew point . the product simply requires the substrate temperature to be above the dew point.

Curing Schedule

Surface Temp. & 50% Relative Humidity	Touch Free	Dry to Recoat & Topcoat	Final cure
25°C(77°F)	4~5 hours	1 day	7 days
50°C(122°F)	2~4 hours	0.5~1 day	4~5 days

Package, Handling & Storage

Shelf Life	Minimum 12 months under 40°C environment temp.
Shipping Weight	3 KG 10 KG
Storage Temperature & Humidity	5-40°C (41-104°F) 0-90% Relative Humidity
Flash Point	100°C (212°F)
Storage	Store in cool ventilated place, do not exposed to the sun in outdoor to avoid affecting the quality.