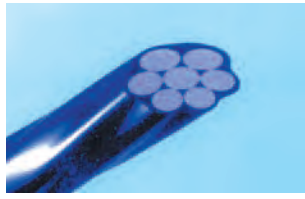


Superior Corrosion Resistance Prestressing Strand

Specification for Epoxy Coated Strand



FLOGARD™

Basic type



FLOBOND™

High adhesion type



PE-covered FLOGARD™

High anti-corrosion type

Specification for Strand

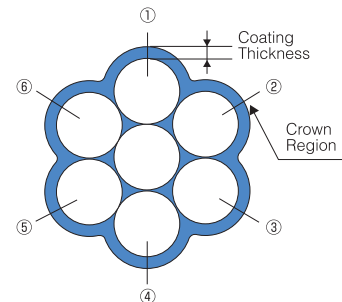
Diameter of Strand		Thickness of Epoxy Coating and PE sheath (mm)	Unit Weight (kgs/m)	Min. Yield Strength (kNf)	Min. Breaking Strength (kNf)	Min. Total Elongation (%)	Relaxation	
Nominal Dia. (mm)	Nominal Dia. (mm)						Normal (%)	Low (%)
12.4	13.6	Refer to the table below	0.772	136	160	3.5	≤ 6.5	≤ 2.5
15.2	16.4		1.155	204	240	3.5	≤ 6.5	≤ 2.5
12.7	13.9		0.817	156	183	3.5	≤ 6.5	≤ 2.5
15.2	16.4		1.155	222	261	3.5	≤ 6.5	≤ 2.5

*1: Measured at Crown Region *2: Based on JIS G 3536-1999 *3: 0.7Py, 1000hr

Specification for Thickness of Epoxy Coating Layer

Standard	ASTM A882-04	ISO 14655-1999		Additional standard (popular in Japan)
Filled or Non Filled	Filled	Filled	Non Filled	Filled
Epoxy Coating Thickness (mm)	0.380~1.140	0.400~0.900	0.650~1.150	0.40~1.20
Thickness of PE-covering (mm)	—	—	—	≥ 0.8
Relaxation	≤ 6.5%	≤ 6.5%	≤ 4%	≤ 6.5% (Normal) ≤ 2.5% (Low)

*4: Measured at every 6 Crown Region *5: Only for PE-covered FLO-GARD

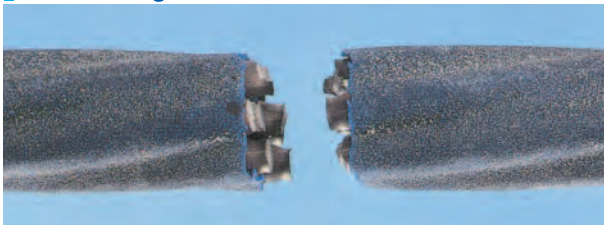


Specification for Epoxy Coating

Requirements		Test Method	Test Result
Chemical Resistance	Water 1000hr	ASTM G20	No Crack or Abnormality is shown
	3M NaOH 1000hr	ASTM G20	
	3M CaCl2 1000hr	ASTM G20	
	Sat. Ca(OH)2 1000hr	ASTM G20	
Adhesion of Coating	Bending Test 32D	ASTM A882	
Cathodic Disbonding Test		ASTM G8	
Impact Resistance	Falling Weight Test	ASTM G14	
Salt Spray Test 3000hr		ASTM B117	

Typical Characteristics of Epoxy Coated Prestressing Strand

Adhesion of coating until breakage of strand



Can be anchored directly using a special wedge



Salt spray test after 1,000 hours

