

Flake Lining Material

OHJI FLAKE 100 SERIES

Heavy duty, Thick type

● Thickness avg.2 mm (coats)

● Method Trowel

Application

- FGD duct & tank
- Water treatment equipment
- Chemical tank

[OHJI FLAKE 100 series]

	Base Resin	Average Volume	Features
HF-141	Het acid Polyester resin	4 kg/m ³	For oxidizing chemicals
HF-161	Bis type Vinylester resin	4 kg/m ³	Standard (100 ⁰ C-Liquid)
HF-181	Novolac type Vinylester resin	4 kg/m ³	Heat resistance (150 ⁰ C-Gas)

OHJI FLAKE 200 & 300 SERIES

Light duty, Thin type

● Thickness avg. 0.8 mm (200 series)

Avg.0.4 mm (300 series)

● Method Spray or Roller

Application

- Oil tank
- Seawater pipe
- Ocean construction

[OHJI FLAKE 200 series]

	Base resin	Average Volume	Features
HF-261	Bis type Vinylester resin	1.8 kg/m ²	Standard (60 ⁰ C-liquid)
HF-281	Novolac type Vinylester resin	1.8 kg/m ²	Heat resistance (150 ⁰ C-Gas)

[OHJI FLAKE 300 series]

	Base resin	Average Volume	Features
HF-341	Het acid Polyester resin	1 kg/m ²	For oxidizing chemicals
HF-361	Bis type Vinylester resin	1 kg/m ³	Standard (55 ⁰ C-Liquid)
HF-381	Novolac type Vinylester resin	1 kg/m ²	Heat resistance (150 ⁰ C-Gas)



Primer & Top coat

● Method Spray or Roller or Brush

[OHJI PRIMER]

	Base resin	Average Volume	Features
PR-60	Bis type Vinylester resin	0.2 kg/m ²	For metal surface
PR-90	One component liquid type High-penetration Urethane Resin	0.3 kg/m ²	For adhesion of different kinds of resin For concrete surface

[OHJI TOP COAT]

	Base resin	Average Volume	Features
TC-40	Het acid Polyester resin	0.3 kg/m ²	For smooth surface Easy cleaning
TC-60	Bis type Vinylester resin	0.3 kg/m ³	
TC-80	Novolac type Vinylester resin	0.3 kg/m ²	

Physical Properties of Flake Lining



Test Item		100 series	200 series	300 series	Remaks
Bending Strength	(MPa)	70	60	60	JIP K7203
Tensile Adhesive Shear Strength	(MPa)	35	30	30	JIS K7113
Adhesion Strength	(MPa)	13 ~ 16	13 ~ 16	13 ~ 16	JIS K6850
Flexural	(MPa)	0.9 ~ 10 ⁴	0.4 ~ 10 ⁴	0.42 ~ 10 ⁴	JIS K7023
Tensile Modulus	(MPa)	1.0 ~ 10 ⁴	5.3 x 10 ³	5.3 x 10 ³	JIS K7113
Tensile Elongation	(%)	0.5	1.1	1.0	JIS K7113
Cure Shrinkage Rate	(%)	0.10	0.15	0.15	Length direction
Vapor Permeability (g/24hr·m ² ·mmHg/cm)		3.6 x 10 ⁻⁴	1.7 x 10 ⁻³	1.7 x 10 ⁻³	ASTM-E-96
Barcol Hardness		40	40	40	ASTM-244
Taber Abrasion Coefficient		40 ~ 50	40 ~ 50	40 ~ 50	
Linear Expansion Ratio	(/°C)	2.0 ~ 2.2 ~ 10 ⁻⁵	2.0 ~ 2.2 ~ 10 ⁻⁵	2.0 ~ 2.2 ~ 10 ⁻⁵	JIS K691
Max. Working Temperature	(/°C)	100 150	54 ~ 60 150	49 ~ 50 150	In liquid In Gas