Palatal® A 408 T-01

Orthophthalic/NPG resin (Group 3) for Hot cure CIPP/Relining

Palatal® A 408 T-01 is an Ortho/NPG resin with a great track record in Hot cure CIPP/Relining.

Through the excellent wet out of ATH fillers and low inherent shrinkage (low cracking sensitivity), installed liners are strong and closely following the host pipe.

Benefits

- Low shrinkage, nicely following host pipe
- Good mechanical strength
- Installation robustness through combination of long resin pot life and fast cure
- Elevated filler loadings leading to high stiffness and cost efficiency
- Low exotherm avoiding inner foils to melt

Major Applications

Palatal A 408 T-01 has been especially developed for the warm Cure pipe rehabilitation process.

The chemical composition of Palatal A 408 T-01 translates into good hydrolysis and chemical resistance performance.

Product Specifications

Property	Value	Unit	TM
Appearance	Hazy		TM 2265
Acid value	13 - 17	mg KOH/g	TM 2401
Solids content	58 - 61	%	TM 2033
Gel time	13 - 17	min	TM 2259
Peak time	20 - 26	min	TM 2259
Time Gel to Peak	22 - 28	min	TM 2259
Peak temperature	135 - 165	℃	TM 2259
Minimum pot life	55	min	TM 2301B
Viscosity	2100 - 3000		TM 2313, 23 °C, 2 s^{-1}
Viscosity	700 - 900		TM 2313, 23 °C, 20 s^{-1}
Viscosity	380 - 450		TM 2313, 23 °C, 250 s^{-1}
Viscosity	500 - 650		TM 2313, 23 °C, 50 s^{-1}
Loading temperature	15 - 18	℃	TM 2920

TM2313: Physica, spindle Z2, 23°C. TM2259: 60°C and TM2301B: 50°C: 1.0 g Cobalt accelerator (1%) + 0.8 g Di (4-tert-butylcyclohexyl peroxydicabonate) + 1 g t-Butyl peroxybenzoate in 100 g resin.

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Liquid resin typical properties

Property	Value	Unit	TM
Color	Green		
Density	1100	kg/m³	TM 2160, 23 °C
Flash point	33	°C	TM 2800
Stability	6	Month	TM 2303, 25 °C, dark

Unfilled castings typical properties

Property	Value	Unit	TM
Tensile strength	67	MPa	ISO 527-2
Tensile modulus	3.7	GPa	ISO 527-2
Tensile elongation	2.1	%	ISO 527-2
Flexural strength	120	MPa	ISO 178
Flexural modulus	3.7	GPa	ISO 178
HDT	96	°C	ASTM D648, 264 psi

Cured with 0.5% 1% Cobalt solution + 2% Medium reactive MEKP. Post cured 24 h at RT followed by 24 h 60°C and 24 h 80°C. Curing agents: Medium reactive MEKP is methyl ethyl ketone peroxide (MEKP).

Application Guidelines

Stir the resin before use.

The resin should be stored indoors in a dry place at temperatures between 5°C and 30°C, in the original, unopened, 100% light-tight and undamaged packaging.

The properties of the resin may change slightly during storage. Shelf life is shorter at higher temperatures.

Material Safety

A Safety Data Sheet (SDS) of this product is available on request.

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Test Methods

Test methods (TM) referred to in the table(s) are available on request.

ISO 9001:2015 Certified

The Quality Management Systems at every AOC manufacturing facility have been certified as meeting ISO 9001:2015 standards. This certification recognizes that each AOC facility has an internationally accepted model in place for managing and assuring quality. We follow the practices set forth in this model to add value to the resins we make for our customers.

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AOC is the leading global supplier of specialty formulations and solutions which enable customers to create robust, durable, and versatile products and components for applications in Coatings and Protective Barriers, Colorants and Visual Effects, Adhesives and Specialties, and conventional Composites. With strong capabilities worldwide in manufacturing and science, the company works closely with customers to deliver unrivaled quality, service, and reliability for today and create innovative solutions for tomorrow.

Contact us for more information

We will help you to choose the right solution for your business.

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