

NP-F 9200HT
HIGH TG - FUSION BONDED EPOXY
TECHNICAL DATA SHEET

Product Description:

National Paint's NP-F 9200HT is a thermosetting High Service Temp. Condition Fusion Bonded Epoxy Powder designed for both as stand-alone FBE application and also as anti-corrosion primary layer in multi-layer coating systems. It is based on specialty Epoxy resins and Hardeners formulated in order to meet external pipe coating specifications.

NP-F 9200HT typically applied in the temperature range 230°C to 250°C up to 500 microns as a stand-alone anti corrosion coating, higher thickness can be applied for concrete weight coatings. It can be applied at lower temperature 180°C to 220°C when used as primer in three layer systems

Operating Temperature: NP-F 9200HT is suitable for operation at continuous operating temperature up to 120°C.

Powder Properties:

Chemical Type		-:	Fusion Bonded Epoxy
Color		-:	Yellow/Red/Grey
Cure Time at 232+/-3°C	(CSA-Z245.20-14)	-:	60 seconds
Gel Time at 205°C	(CSA-Z245.20-14)	-:	12 - 18 seconds
Particle Size	(CSA-Z245.20-14)	-:	99.8% below 250u
Specific Gravity	(CSA-Z245.20-14)	-:	1.37 +/- 0.05
Theoretical Coverage		-:	140 ft ² /lb/mil (0.730 m ² /kg/mm)
Moisture Content	(CSA-Z245.20-14)	-:	Below 0.50%
Thermal Characteristics	(CSA-Z245.20-14)	-:	(at manufacturing time) Tg1 = 50 – 70°C Tg2 = 120°C - 130°C Delta H = 70-120 J/g

Coating Properties:

Flexibility	(CSA-Z245.20-14)	-:	Pass (No cracking)
	3.0° PPD @ -30C		
Impact resistance	(CSA-Z245.20-14)	-:	> 1.5 J (No Holiday)
Cross Section Porosity	(CSA-Z245.20-14)	-:	Average Rating-1
Interface Porosity	(CSA-Z245.20-14)	-:	Average Rating-1
Adhesion	(CSA-Z245.20-14)	-:	Rating 1 - 2
			95°C for 24hours
Pencil Hardness	(ASTM D 3363)	-:	2H Pass
Cathodic Disbondment	(CSA-Z245.20-14)		
	24 hours, 3.5V, 65°C	-:	Average 2 - 3 mm
	28 days, 1.5V, 20°C	-:	Average 3 - 4 mm
	24 hours, 3.5V, 95°C	-:	Average 4 - 6 mm
	(Modified)		
Thermal Characteristics	(CSA-Z245.20-14)	-:	120°C - 130°C
	(Cured Film)		Delta Tg = +-5° C

Storage Conditions: Store Powder in a Dry cool condition below 25°C temperature & relative humidity of 65% for 12 month. Do not exceed 30°C. Keep powder in packed condition if not in use to avoid contamination and moisture. Do not mix with any other Powder.

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The information in this Data Sheet is the outcome of National Paints research work and experience. The information contained herein is believed to be accurate but cannot be taken as a formal warranty.

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