

NP-F 9700RC FAST GEL FBE FOR REBAR COATING TECHNICAL DATA SHEET

Product Description:

<u>NP-F 9700RC</u> is a thermosetting fast gel Fusion Bonded Epoxy Powder designed for corrosion protection of reinforcing steel. It's applied to preheated steel which melts and cures to make a uniform coating surface. NP-F9700RC provides excellent adhesion, flexibility, and corrosion protection on concrete reinforcing steel bars. It is based on specially selected Epoxy resins and hardeners formulated in order to meet the specifications related to the concrete reinforcing steel bar protection.

<u>NP-F 9700RC</u> can be applied in the temperature range 230°C to 250°C from 175 to 300 microns. The powder cures with residual heat from the metal and provides optimal adhesion to the steel. It's very reactive and can be applied at high application speed.

Powder Properties:

-:	Fusi	Fusion Bonded Epoxy	
	-:	Green/Blue	
(CSA-Z245.20-10)	-:	6 - 7 seconds	
(CSA-Z245.20-10)	-:	3 - 4 seconds	
(CSA-Z245.20-10)	-:	< 30 seconds	
(CSA-Z245.20-10)	-:	99.8% below 250 micron	
(CSA-Z245.20-10)	-:	1.37 +- 0.05	
(CSA-Z245.20-10)	-:	Below 0.50% (at manufacturing time)	
(CSA-Z245.20-10)	-:	$Tg1 = 55 - 70^{\circ}C$	
		$Tg2 = 105 + -5^{\circ}C$	
		Delta $H = 40-60 \text{ J/g}$	
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Coating Properties:

Flexibility (ASTM A 775/A) -: Pass (No cracks)

Rebar #6,

180degree bend 6inch Mandrel

Flexibility (ASTM A 775/A) -: Pass (No cracks)

Rebar #5,

180degree bend 3.75inch Mandrel

Impact resistance (ASTM G14) -: No Cracking/shattering

Pencil Hardness (ASTM D 3363) -: >5H Pass

Cathodic Disbondment (ASTM G8)

7days, 1.5V, 24°C -: Average 3 - 4 mm

Salt Spray (ASTM B117)

5% NaCl 800hrs, 35°C -: < 3mm

Chemical Resistance (ASTM A775/A)

45 days at 24+-2°C

3 molar CaCl₂
No Blistering or peeling
3 molar NaOH
No Blistering or peeling
No Blistering or peeling
No Blistering or peeling

Thermal Characteristics (CSA-Z245.20-10) -: 105 +-5°C

(Cured Film) Delta $Tg = +-3^{\circ} C$

Storage Conditions: Store Powder in a Dry cool condition below 25°C temperature & relative humidity of 65% for 6 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.

FBE/ REV00 03-01-2018

The information in this Data Sheet is the outcome of NP 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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هاتف: ۱۲۰۰۰۰ تا ۹۷۱ ، فاکس: ۲۲۲ تا ۲۵ ۲۱ ۹۷۱

شركة مصانع الأصباغ الوطنية المحدودة

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