

**NP-F 9500PW**  
**VALVES & FITTINGS FBE FOR POTABLE WATER**  
**TECHNICAL DATA SHEET**

**Product Description:**

National Paint's NP-F 9500PW is a special FBE coating for use in contact with hot and cold potable drinking water, it's tested as per BS6920 up to 85°C and has WRAS approval for contact with hot and cold water.

NP-F 9500PW series normally applied in the temperature range 200°C to 250°C up to 500 microns as a stand-alone anti corrosion coating. It is applied to preheated steel as a dry powder, which melts and cures to a uniform protective coating. NP-F 9500PW series have very good adhesion to the metal surface and provide long term mechanical and chemical resistance at various operational temperatures. It has High mechanical impact strength and penetration resistance, very low permeability to water vapors.

NP-F 9500PW series is available in blue color RAL5005 in different gel times as per pipe, tubes, valves and fittings wall thicknesses.

**Powder Properties:**

Chemical Type		:-	<b>Fusion Bonded Epoxy</b>
Color		:-	RAL5005
Cure Time at 204°C	(CSA-Z245.20-14)	:-	90 – 120 seconds 150 - 240 seconds 240 – 360 seconds
Gel Time at 204°C	(CSA-Z245.20-14)	:-	18 – 24 seconds 30 - 35 seconds 50 – 55 seconds
Particle Size	(CSA-Z245.20-14)	:-	99.8% below 250 micron
Specific Gravity	(CSA-Z245.20-14)	:-	1.45 +- 0.05
Theoretical Coverage		:-	133 ft <sup>2</sup> /lb/mil (0.69 m <sup>2</sup> /kg/mm)
Moisture Content	(CSA-Z245.20-14)	:-	Below 0.50% (at manufacturing time)
Thermal Characteristics	(CSA-Z245.20-14)	:-	Tg1 = 55 – 70°C Tg2 = 105 +- 5°C Delta H = 30-70 J/g

### Coating Properties:

Appearance		-:	Smooth Glossy
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
	75°C for 24hours		
Pencil Hardness	(ASTM D 3363)	-:	3H Pass
Abrasion Resistance	(ASTM D 1944)	- :	<0.2g wt. loss
	1000g load, 3000 cycles, CS17 wheels		
Water immersion	(ASTM D 870)	-:	3000 hrs, No loss of
	Distilled water		adhesion and blistering
Gloss Level	(ISO-2813)	-:	70-90 Pass
Cathodic Disbondment	(CSA-Z245.20-14)		
	24 hours, 3.5V, 65°C	-:	Average 3 - 4 mm
Thermal Characteristics	(CSA-Z245.20-14)	-:	105 +-5°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.

FBE/ REV01 09-07-2019

*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.*

Your World. Our Colors.

صايبك ألواننا

National Paints Factories Co. Ltd.

Tel: +971 6 5130000, Fax: +971 6 5340222

P.O. Box: 5822, Sharjah - U.A.E.

ISO 9001 & 14001  
OHSAS 18001  
CERTIFIED FACTORY

www.national-paints.com

شركة مصانع الأصباغ الوطنية المحدودة

هاتف: +971 6 5130000، فاكس: +971 6 5340222

ص.ب: 5822، الشارقة - إ.ع.م