

### Three layer anticorrosion coating 3 LPP

Type of test	Test conditions	Required result	Obtained result
Holiday test	Voltage U = 25 kV	No holidays	No holidays
Impact resistance	23 °C Voltage U = 25 kV	≥ 10 J/mm No holidays	≥ 10 J/mm No holidays
	0 °C Voltage U = 25 kV	≥ 5 J/mm No holidays	≥ 5 J/mm No holidays
Indentation	23 °C, 24 hours.	≤ 0,1 mm	0,04 mm – 0,09 mm
	90 °C, 24 hours	≤ 0,4 mm	0,09 mm – 0,15 mm
Elongation at break	23 °C	≥ 400 %	450 % - 650 %
Peel strength	23 °C	250 N/cm No adhesion failure between steel and epoxy	250 N/cm – 775 N/cm No adhesion failure between steel and epoxy
	90 °C	60 N/cm No adhesion failure between steel and epoxy	70 N/cm – 350 N/cm No adhesion failure between steel and epoxy
Product stability during application	230 °C, 2,16 kg	ΔMFR ≤ 35%	2,9% - 16,0%
Cathodic disbondment	23 °C/28 days -1,38 V	≤ 5 mm	2,7 mm – 4,8 mm
	65 °C/24 hours -3,38 V	≤ 4 mm	0,7 mm – 3,8 mm
	90 °C/28 days -1,38 V	≤ 15 mm	10,1 mm – 14,8 mm
Flexibility	Bend angle 2,0° on pipe diametric length	No cracks	No cracks
Hot water immersion resistance	80 °C, 48 hours	Average ≤ 2,0 mm Maximum ≤ 3,0 mm	No disbondment
Thermal ageing resistance	150 °C, 240 hours	ΔMFR ≤ 35%	ΔMFR ≤ 33%
UV ageing resistance	1580 godz. (5 GJ/m <sup>2</sup> )	ΔMFR ≤ 35%	ΔMFR ≤ 17%
Specific electrical coating resistance	23 °C, 100 days	R <sub>s</sub> > 10 <sup>8</sup> Ωm <sup>2</sup>	R <sub>s</sub> > 10 <sup>10</sup> Ωm <sup>2</sup>