

PROMAPAIN[®]-E for Beams and Columns protection

Test: LGAI-97005515

PROMAPAIN[®]-E is an intumescent paint, which once applied on columns and beams, improves its fire resistance to 30 minutes.

Technical data:

1. Steel member, clean.
2. Primer coating for corrosion protection (can be substituted by a diluted coat of PROMAPAIN[®]-E)
3. PROMAPAIN[®]-E Coating
4. Top coat (optional)
5. Painted and protected member

Important:

PROMAPAIN[®]-E is neither toxic nor dangerous for the environment.

Application:

As coating for:

- Beams
- Columns
- Flanges (structural members working in traction or compression)

For inside and outside applications not exposed at continuous high humidities or aggressive gases

PROMAPAIN[®]-E can be applied by brush, roller or airless gun

The surface to be protected has to be clean, dry and free of non adherent substances that could endanger the adherence of PROMAPAIN[®]-E

During application, support temperature has to be over 5 °C

The paint has to be stored in freeze protected areas, and with the bucket perfectly closed. Before the application, shacking with a proper shaker is necessary to obtain the correct homogeneity.

PROMAPAIN[®]-E is a technical paint, which cannot be compared with other kind of paints in application nor in thickness. Care is needed in its application.

PROMAPAIN[®]-E can be diluted using PROMAPAIN[®] Solvent in the following rates:

As primer: 15% maximum
 Application by gun: 5% maximum
 Application by brush or roller: do not dilute

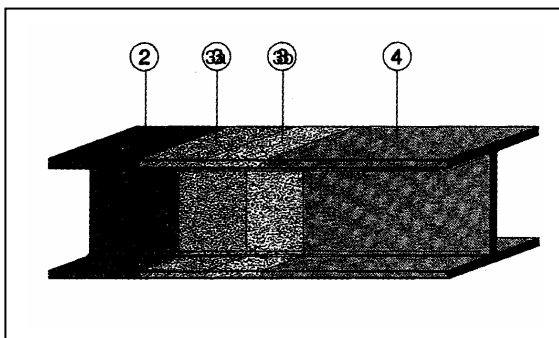
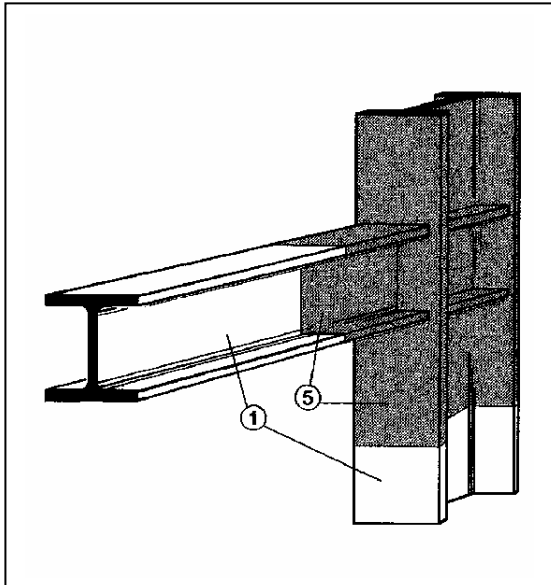


TABLE 1
Application Data

Coat	Yield M2/kg	Thickness Dry μ	Material Kg/m2	Drying Time h.	Repaint Time
2	4	60	0.25	1-2	24
3	0.92	500	1.08	2-3	24
4	7.7	40	0.13	1-2	-

PROMAPAIN[®]-E SYSTEM DATA SHEET

PROMAPAIN[®]-E System	PROMAPAIN[®]-E Primer	PROMAPAIN[®]-E Intumescent	PROMAPAIN[®]-E Finishing Coating
Composition	Synthetic polymers with anticorrosive pigments	Synthetic polymers with intumescent pigments	Synthetic chlorinated polymers
Function	Corrosion protection	Fire protection	Finishing, colour and weather resistance
Application Temperature	≤ 5°C	≤ 5°C	≤ 5°C
Uses	Both internal and external uses	Both internal and external uses	Both internal and external uses
Application way	By brushing and spraying with airless gun	By brushing and spraying with airless gun	By brushing and spraying with airless gun
Preparation	Surface has to be free of oil, grease and corrosion	Surface has to be free of oil, grease and corrosion	Surface has to be free of oil, grease and corrosion
Yield in gr/m² (wet)	250	850 - 1.330 per coat	130
Dry thickness (µm)	60	400 - 600 per coat	40
Viscosity	120 - 130 Ford 4	Tixotropic	120 - 130 Ford 4
Density (gr/cm³)	1,5	1,3	1,05 - 1,2
Kg per bucket	25	25	25
Storing time	Up to 6 months	Up to 6 months	Up to 6 months

PROMAPAINTE Hp/a TABLES

PROMAT IBERICA, S.A.	PROMAPAINTE - E	*Beams*
SECTION FACTOR (1/m)	Thickness (mm)	
	EF (min)	
	30	60
360	1275	-
340	1158	-
320	1050	-
300	952	-
280	863	-
260	780	-
240	704	-
220	634	-
200	569	-
180	508	-
160	452	-
140	(428)	(1388)
120	(428)	1171
110	(428)	1067
90	(428)	869
(80)	(428)	(774)

Table evaluated for 500°C of steel critical temperature.

Values between parenthesis have been evaluated by extrapolation. Section factor ±10 % and thickness ±5%.

PROMAT IBERICA, S.A.		PROMAPAIN - E		*Columns*
SECTION FACTOR (1/m)	Thickness (mm)		EF (min)	
			30	60
360	-	-	-	-
340	-	-	-	-
320	-	-	-	-
300	(1310)	-	-	-
280	1199	-	-	-
260	1094	-	-	-
240	995	-	-	-
220	899	-	-	-
200	809	-	-	-
180	722	-	-	-
160	639	-	-	-
140	560	-	-	-
120	484	(1377)	-	-
110	(448)	1257	-	-
90	(428)	1025	-	-
(80)	(428)	(913)	-	-

Table evaluated for 500°C of steel critical temperature.

Values between parenthesis have been evaluated by extrapolation. Section factor $\pm 10\%$ and thickness $\pm 5\%$.