



## DESCRIPTION

**Teclack-W®** is a water-borne, intumescent paint for steel structures.

## CERTIFICATES

European Technical Assessment (ETA) certificate according to ETAG 018- part-2, and included in ETA report 16 / 0359 of 27.05.2016

CR 61-01 / 06.12.2015

Eme A-2/1998

Fires CR-208-12-AUPE2

## EXPECTED USE

**Teclack-W®** serves as a passive fire protection system for structural steel elements that enhances their fire resistance in accordance with **UNE EN 13381-8** and for design temperatures between 350°C and 750°C.

## CONDITIONS FOR USE

The surface of the steel structure must be at a temperature of between + 5°C and +40°C, with 70% relative humidity, and at least 3°C above dew point.

Do not apply the product at ambient temperatures below 5°C.

## SHELF LIFE

12 months (in the original can)

Unopened cans should be kept sealed and stored away from extreme temperatures that might cause the paint to freeze or dry.

## PACKAGING

In 25 kg metallic drums.

## HEALTH AND SAFETY

This product does not contain any of the hazardous substances listed in EEC Directive 67/658/EEC or in Regulation 1272/2008.

General precautions when using **Teclack-W® Paint**:

- Keep away from food and drink.
- Avoid contact with the body and eyes. In the event of contact, wash with abundant water.
- It is recommended to protect hands with safety gloves: nitrite-rubber, natural rubber (latex).
- The use of safety goggles is recommended to protect the eyes.
- After use, wash hands with abundant water.

## ADDITIONAL INFORMATION

This product is recommended for indoor use only; depending on the intensity of the environmental load, the surface should be given one or two topcoats. Recommended topcoat: protective coatings commonly used for corrosion protection, such as: alkyd resin, two-component acrylic polyurethanes, acrylic resin hydroxyl / aliphatic-based polyurethanes.

Further information about how to apply the product is available in the “User’s Manual”

Unpainted surfaces coated with **Teclack-W®** fire-retardant should not be exposed to weathering (e.g. rain, moisture, or heavy condensation).

## TECHNICAL CHARACTERISTICS AND SPECIFICATION

<b>Euroclass</b>	Bs1d0 according to EN13501-1. Euroclass rating was determined by applying <b>Teclack-W®</b> on anti-corrosion primer with no topcoat.
<b>Colour</b>	White (also available on request in RAL shades RAL 1015, 6019, 7035, 9002, 9010)
<b>Volume solids</b>	68 ± 2 %
<b>Density (kg/lt)</b>	1,34 ± 0,06 g/cm <sup>3</sup>
<b>Solubility</b>	Soluble in water.
<b>Drying time</b>	Average drying time at 23 °C for a layer of 250 µm thickness: Watertight after 1 hour. Dry to touch after 24 hours. Repainting interval: - With same paint, after 8 hours' drying. - With topcoat, after 24 hours' drying.
<b>Surface preparation</b>	Surfaces to be treated must be completely dry and free of all contaminating particles (dust, grease, oils, etc.); they should also have an anti-corrosion primer compatible with intumescent paint with a fire reaction grading of bs1d0 or better. The recommended anti-corrosion primers compatible with this intumescent paint are one-component Alkyds. Galvanised surfaces should be treated with a suitable adhesion product. Consult the Technical Department.
<b>Application</b>	Airless spray: Nozzle size. 0.48-0.63 mm: 800 - 1000 µm fresh paint per coat. Brush, roller: 300-500 µm of fresh paint per coat. <b>Teclack-W®</b> paint should be applied undiluted or with a maximum dilution of 3% with water after proper stirring with mixing machine. Spraying equipment should be cleaned with water after use and it may also be necessary to carry out intermediate cleaning during the working day depending on the amount of paint applied, temperature and stoppage times.
<b>Dry Film Thickness and fire resistance rating</b>	According to EU A-2085/2009 classification report for structures with wall thickness of over 5 mm.
<b>Service life</b>	Ten years, provided that the conditions established for packaging, transportation, storage, installation, use and repair are fulfilled.

We guarantee that the quality of our materials conforms to the indicated technical specifications, while it remains the consumer's own responsibility to determine how suitable the product is for the intended use. You must perform tests and ensure the effectiveness of the product for its application. **mercortecresa®** does not guarantee, explicitly or implicitly, the compatibility of a product for any particular application. We cannot be held responsible for any damage or accident resulting from the use of our products

### TECLACK-W® PAINT THICKNESS TABLE for OPEN STEEL PROFILES (I and H shaped).

The thicknesses shown in this table are those given in the ETA-16/0359 report.  
Table valid for design temperature of 500 °C. For other temperatures, consult the technical department.

(\* Dry film thicknesses of Teclack-W® intumescent paint expressed in microns)

Masivity (m <sup>-1</sup> )	R 15 min	R 30 min	R 45 min	R 60 min
57	248	248	401	621
60	248	248	401	621
65	248	248	406	621
70	248	248	431	631
75	248	248	456	669
80	248	248	481	707
85	248	248	506	745
90	248	248	531	782
95	248	248	556	820
100	248	248	581	858
105	248	248	606	889
110	248	248	631	917
115	248	248	657	946
120	248	248	684	974
125	248	262	710	1002
130	248	276	736	1030
135	248	290	762	1058
140	248	304	789	1086
145	248	318	815	1114
150	248	331	841	1142
155	248	345	867	1171
160	248	359	890	1199
165	248	373	913	1227
170	248	387	936	1255
175	248	401	958	1283
180	248	415	981	1311
185	248	429	1004	1339
190	248	443	1026	1368
195	248	457	1049	1396
200	248	471	1071	-
205	248	485	1094	-
210	248	499	1117	-
215	248	513	1139	-
220	248	527	1162	-
225	248	541	1184	-
230	248	555	1207	-
235	248	569	1230	-
240	248	583	1252	-
245	248	597	1275	-
250	248	611	1298	-
255	248	625	1320	-
260	248	641	1343	-
265	248	657	1365	-
270	248	673	1388	-
275	248	689	-	-
280	248	705	-	-
285	248	721	-	-
290	248	737	-	-
295	248	754	-	-
300	248	770	-	-
305	248	786	-	-
310	248	802	-	-
315	248	818	-	-
320	248	834	-	-
325	248	850	-	-
330	248	866	-	-
335	248	889	-	-
340	248	916	-	-
345	248	942	-	-
350	248	969	-	-
355	248	996	-	-
360	248	1022	-	-
365	248	1049	-	-
370	248	1075	-	-
375	248	1102	-	-
380	248	1128	-	-
385	248	1155	-	-
388	248	1171	-	-

## TECLACK-W® PAINT THICKNESS TABLE for CLOSED STEEL PROFILES (hollow round and rectangular profiles)

The thicknesses shown in this table are those given in the CR-61-01 report.

Table valid for design temperature of 500° C. For other temperatures, consult the technical department.

(\*Dry film thicknesses of Teclack-W® intumescent paint expressed in microns)

Masivity (m <sup>-1</sup> )	R 15 min	R 30 min	R 45 min	R 60 min	R 90 min	R 120 min
57	250	250	293	638	1328	2017
60	250	250	293	638	1328	2017
65	250	250	359	767	1585	2403
70	250	250	359	767	1585	2403
75	250	250	426	901	1851	2801
80	250	250	426	901	1851	2801
85	250	250	496	1039	2126	3213
90	250	250	496	1039	2126	3213
95	250	250	568	1182	2410	3639
100	250	250	568	1182	2410	3639
105	250	250	642	1330	2705	-
110	250	250	642	1330	2705	-
115	250	250	720	1483	3010	-
120	250	250	720	1483	3010	-
125	250	250	800	1642	3326	-
130	250	250	800	1642	3326	-
135	250	250	883	1806	3654	-
140	250	250	883	1806	3654	-
145	250	250	969	1977	-	-
150	250	250	969	1977	-	-
155	250	250	1059	2155	-	-
160	250	250	1059	2155	-	-
165	250	250	1152	2339	-	-
170	250	250	1152	2339	-	-
175	250	250	1248	2531	-	-
180	250	250	1248	2531	-	-
185	250	250	1349	2730	-	-
190	250	250	1349	2730	-	-
195	250	250	1454	2938	-	-
200	250	250	1454	2938	-	-
205	250	250	1563	3155	-	-
210	250	250	1563	3155	-	-
215	250	250	1677	3381	-	-
220	250	250	1677	3381	-	-
225	250	250	1797	3617	-	-
230	250	250	1797	3617	-	-
235	250	250	1921	-	-	-
240	250	250	1921	-	-	-
245	250	250	2051	-	-	-
250	250	250	2051	-	-	-
255	250	250	2188	-	-	-
260	250	250	2188	-	-	-
265	250	250	2331	-	-	-
270	250	250	2331	-	-	-
275	250	250	2482	-	-	-
280	250	250	2482	-	-	-
285	250	250	2640	-	-	-
290	250	250	2640	-	-	-
295	250	250	2806	-	-	-
300	250	250	2806	-	-	-
305	250	250	2981	-	-	-
310	250	250	2981	-	-	-
315	250	250	3166	-	-	-
320	250	250	3166	-	-	-
325	250	250	3362	-	-	-
330	250	250	3362	-	-	-
335	250	250	3569	-	-	-
340	250	250	3569	-	-	-
345	250	250	-	-	-	-
350	250	250	-	-	-	-
355	250	250	-	-	-	-
360	250	250	-	-	-	-
365	250	250	-	-	-	-
370	250	250	-	-	-	-
375	250	250	-	-	-	-
380	250	250	-	-	-	-
385	250	250	-	-	-	-
388	250	250	-	-	-	-