



HYDROTON PYRO PRO ACRYLIC

DESCRIPTION : Industrial thin-film intumescent solvent-based coating for Fire protection of structural steelwork for time intervals as 30 min 45 min, 60 min, 90 min and 120 min.

PRINCIPAL CHARACTERISTICS : Suitable to be exposed externally, to weathering conditions, as also internally on covered buildings.
Provides fire protection from 30 min to 2 hours for specific types of steel structure.
Very sensitive to humidity, rain or water, and in general, if left uncovered without any finish coat.
Easy to apply.
The Assessment report is provided from the Spanish laboratory LGAI (APPLUS) Technological Center S.A, based on the new European legislation **EN 13381 – part 4 : 2005**.
Not suitable for immersion in water or metal structure cavities filled with water.

COLOURS : White

GLOSS : MATT

PACKAGING : 20 Lt metallic drum

MASS DENSITY : approx. 1,33 ± 0,05 Kg / lt

SOLIDS CONTENTS PER VOLUME : approx. 75 ± 1%

VOC (supplied) : max. 390 grill

RECOMMENDED DRY FILM THICKNESS : **250 – 300** microns per coat.
An experienced applicator can applied up to 700 – 1000 microns per coat, depending on section factor and time of fire protection, but the recoating time will be extended significant.

The above information and our technical advice-whether verbal or in writing-are given in good faith and according to our tests. Our advice does not release you from the obligation to verify the information currently provided and to test our products as to their suitability for the intended processes and uses.



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THEORETICAL SPREADING RATE

: 0,670 lt/ m² or 890 gr / m² → 500 microns
0,937 lt / m² or 1.250 gr / m² → 700 microns
1,340 lt / m² or 1.780 gr / m² → 1000 microns

TOUCH DRY

: after 4 hours (at 25° C & 60 % Relative Humidity) at 350 microns
after 24 ώρες (for carriage or structure handling) at 700 microns.

FULL CURE

: after 7 days at 350 microns
After 12 days at 700 microns.

MINIMUM OVERCOAT INTERVAL

: min. 24 hours, with itself.

TABLE WITH OVERCOATING INTERVALS OF HYDROTON PYRO PRO, WITH APPROPRIATE ALKYD FINISH COATING, AS FAST DRYING HYDROTON IRON ENAMEL @ 25° - 35° C :

Average DFT, of fire Intumescent paint system, solvent-based.	200 - 400 microns	450 – 700 microns	750 – 1000 microns	➤ 1100 microns
Minimum overcoating time.	12 hours	18 hours	24 hours	48 hours
Maximum desired overcoating time.	4 days	4 days	4 days	4 days

Special care must be shown, to safely protect all painted surfaces with plastic covers, when only FP product has applied and awaits for the finish coat application, in order to avoid humidity absorption or contact with water of any kind, from the FP product.

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SHELF LIFE : At cool and dry place up to 35° C , at least 12 months.

FLASH POINT : over 29 °C.

Recommended Primers for Hydroton Pyro Pro @ 50 – 100 microns minimum DFT.

1) Epoxy primer like **Hydroton Epobuild** for Internal and External areas.

Recommended Substrate Conditions and Temperatures

- We suggest to clean the steel substrate with sandblast Sa 1 ½ - 2 ½ . The sand used for blasting should be dry and free from dirt, oil, grease or contamination and the moisture does not exceed 0,05 %.
- We suggest to remove weld spatter and to smooth weld seams and sharp edges.
- We suggest to clean the primed steel substrate film from oils, fats, grease, dirt etc.
- We suggest to clean properly all damaged primed surfaces, happened either during transportation our structure erection, repaint locally and afterwards to apply the fire intumescent paint.
- We suggest that the steel substrate temperature to be well above 10° C and not above 45° C and at least 3° C above the Dew point during application and curing periods.
- We suggest that the relative Humidity, during application and curing periods to be less than 85%.

Instructions in order to use properly this product

- We suggest that you stir very well with mechanical agitator for 5 - 10 min depending on the existed atmospheric temperatures and conditions.
- We suggest that the temperature of the paint , before the application starts, should preferably be over 15° C , otherwise extra Solvent No 401, may be required to obtain application viscosity.
- We suggest that you maintain always adequate ventilation during all application procedures and
- curing periods.

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METHODS OF APPLICATION

AIRLESS SPRAY PUMP : we suggest 60 : 1 at least
RECOMMENDED SOLVENT : Solvent No 401
VOLUME OF SOLVENT : 0 – 5 %, depending upon the required DFT and application conditions.

BRUSH / ROLLER
RECOMMENDED SOLVENT : Solvent No 401

Multiple coats have to be applied in order to obtain the required DFT.

CLEANING SOLVENT HYDROTON No 401 :

We suggest that you clean thoroughly all pump parts every day, after the end of works, in order to keep all parts in proper condition.

SAFETY PRECAUTIONS : For this product and recommended thinners, please refer to the relevant Material Safety Data Sheets – MSDS. This a solvent-based paint and care should be taken to avoid inhalation of spray mist or vapor as well as contact between the wet paint and exposed skin or eyes.

NOTE : We suggest that every 10 -12 years, to check thoroughly all metallic structure for any paint defects, in order to maintain properly and keep your fire protection system always in appropriate use.

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