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INDUSTRIAL COATINGS

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Intumescent Paint CHAR 22, series 745.100

Description and main features

One component, solvent based, passive fire protection system. Under the action of fire it creates a carbonaceous insulating layer up to 100 times the original DFT.

Recommended use: as a fire protection system for steel structures. Unsuitable for outdoor exposure unless protected by a finish coat.

Technical data

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| Finish | Flat (*) |
| Color | White (*) (**) |
| Specific gravity | 1,35 ± 0,05 kg/dm ³ at 23°C |
| Solid content | By weight 75 ± 3% |
| | By volume 63 ± 3% |
| VOC | 250 g/kg |
| Viscosity | Thixotropic Product – > 200000 mPas, Brookfield spindle 4, speed 0,5, at 23°C |
| Drying time | At 23°C ,50% RH, good ventilation, DFT 500 µm Touch dry 1-2 h Hard dry 5-6 h Full dry approx.7 days |
| | <i>Drying times can vary depending on DFT and environmental conditions</i> |

Thinning

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| Thinning | Not recommended. If necessary, up to 10 % Thinner code 900032 |
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Application data

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| Method | Airless, roller or brush | |
| Airless | Pump ratio | 40:1 |
| | Nozzle orifice | Self cleaning - 045-051" |
| | Nozzle pressure | 150-180 bar |
| | <i>Filters must fit the used nozzle.</i> | |
| <i>Indicative data; it is the user's responsibility to chose the right equipment.</i> | | |
| Suggested Primers | Epoxy primer series 706051 or, if a longer over coating time is requested, Retron Acrilico series 773.000 or primer series 191.000 or 192.000. | |



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| Suggested Topcoats | Chlorinated Rubber series 741.000, Retron Acrilico series 778.000 |
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| Application conditions | Application suggested between 5°C and 35°C and at least 3°C above dew point. Substrate perfectly dry and clean, no rain nor fog. The product can be over coated by itself after 24 h from the application, at 20°C, 50% RH, and good ventilation. Over coating with other product only after full drying. For outdoor exposure, the application of a top coat is recommended (DFT min 60 µm) Data vary with DFT and environmental conditions |
|-------------------------------|---|

Recommended DFT

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|---------------------------------|---|
| Recommended DFT | 300 - 500 µm |
| Theoretical consumption | approx. 0,64 – 1,1 kg/m ² |
| Practical spreading rate | 25% lower than the theoretical, by airless application. |
| Number of coats | TWO – THREE up to the required DFT |

Specific tests

The product is certified according to ENV 13381-4 as requested by the Italian Law (DM 16/02/2007) (test report n° 016Lo03, PAVUS Institute, Praha (CZ)).

Storage indications

Shelf life: 12 months provided the cans are kept sealed and undamaged, into a cool and dry place with temperature between 5 and 35°C.

Usability according to DL 27.03.2006 n°161

It complies with DL 27.03.2006 n° 161. It belongs to category **i**) One component, high performance solvent based paints.
2010 limit = 500 g/l

(*) indicative value, depending on the color - (**) parameters subject to testing for each batch

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