

CHARREX

PFP-1000

CMP CHUGOKU

CHARREX PFP-1000

Epoxy Intumescent Fire Protection for Hydrocarbon Fire

CHARREX PFP-1000 is a high performance epoxy intumescent fire protection coating system and qualified by Underwriters Laboratories (UL) ANSI/UL 1709 certification.

When it comes to fire, it is impressive for protecting Oil & Gas related facilities from hydrocarbon fires.

- **Product 'Mesh-free' which can shorten total processing times and expenses**
- **Qualified by UL-1709 with world-class technology**
- Maintained excellent durability in low-temperature with outstanding adhesion
- Designed to allow fire protection without compromising aesthetic appeal
- Dust-free and not harmful to humans, eco-friendly
- Solvent-free type of Zero-VOC
- Provides corrosion protection and real lifecycle cost saving by reducing on-going maintenance
- Possible to form high-build film and implement excellent anti-corrosion property

CHUGOKU MARINE PAINTS, LTD. & SAMHWA PAINTS INDUSTRIAL CO., LTD., Both coating experts have been collaborating since 1988. We are working together for synergized leading edge technologies in coating industry.



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CHARREX PFP-1000 is ideal for structures on land the protection of from the effects of hydrocarbon fires. It is product 'Mesh-free' which can shorten total Processing times and expenses.

Be suitable when severe a fire happens

CHARREX PFP-1000 is qualified for durability and anti-corrosion property with world-class technical skills.

And it can minimize the damages with protection for humans and properties even in the situation of a fire like with excellent passive fire protection.

Improve Construction Workability and Economical Efficiency

Using by 'Mesh-free' product which was developed, the progress time is shortened and results in the coating time is shortened to minimize cost. It provides corrosion protection and real lifecycle cost saving by reducing on-going maintenance.

It can be on-site applied for construction structure. Compared to steel coated by cementitious materials, as fewer truck journeys.

Eco-Friendly product

It is a solvent-free type zero-voc product and an eco-friendly paint which is not harmful to human body because no occurs dust compared with cementitious PFP.

Be suitable Severe environmental test by UL1709

No	Item	Test condition
1	Reference	Environmental test reference specimen
2	Ageing	70°C air-oven for 270days
3	High Humidity	Humidity 97-100% at 35°C for 180days
4	Industrial Atmosphere	SO ₂ , CO ₂ 1% at 35°C chamber for 30days
5	Salt Spray	90days by ASTM B117
6	UV Exposure	UV-A lamp(351 nm) at 49°C for 135days exposure
7	Chlorine	5ppm Chlorine at 35°C chamber for 180days exposure
8	Wet, Freeze,Dry Cycling	Wet(0.005mm/s, 72h), Freeze(-40°C, 24h), Dry(60°C, 72hr), 12 times
9	Acid Spray	2% HCl Fog spray for 5days
10	Solvent Spray	Solvent Spray at 21°C, dry 6h, Spray & Dry 18 hr,5 times

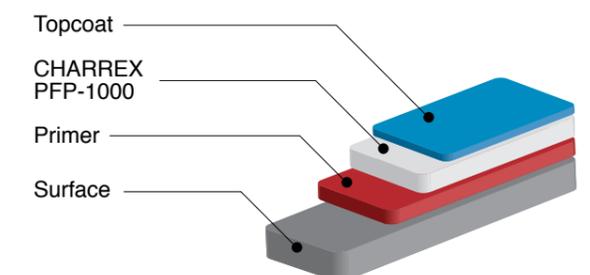
Practical information

Color	Grey (Part A: black, Part B: White)
Gloss	Matt
Volume Solids	100%
Mixing ratio(by weight)	Part A to Part B = 2.5 : 1 For details see the CHARREX PFP-1000 Application Manual
Typical Thickness	Depends on protection required. Normally in the range of 1000~5000µm in one coat
Theoretical coverage	1kg/m ² for 1mm (base on pural component application)
Pot life(at 25°C)	1hr 30min

Drying time (at Wet Film Thickness : 5000µm)

INDEX	5±1°C	25±1°C
Set to touch	9 hrs	5 hrs
Dry hard	30 hrs	24 hrs
Re-coat(min)	24 hrs	6 hrs

Coating System



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