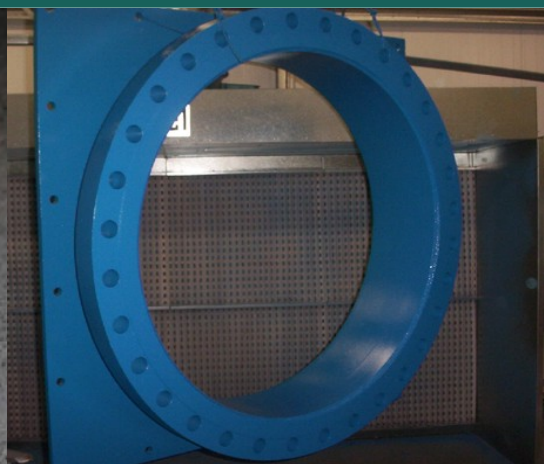


AFS HDPE Powder Coating

DS 731 E 0614



AFS HDPE Powder Coating

Technical Data

AFS HDPE Powder Coating for durable corrosion protection of steel, iron and concrete structures

Kind of Product	Solvent free HDPE Powder for long-term protection and encapsulation suitable for spray application to nearly all kind of materials including steel, iron, concrete etc. The material is optimized for corrosion protection, abrasion protection, uv-protection and for chemical resistance and best anti-burning behaviour.
Norm	No norms yet.
Fire Classification	Non burnable according UL 94 class V0.
Advantages	<ul style="list-style-type: none"> • High durability and expected service life of more than 50 years • Safe and field approved easy coating application system • Perfect material bonding • Excellent acids and alkali chemical resistance • Best mechanical resistance (abrasion and impact resistance, low fractures) • High flexibility (crack-resistance caused by vibrations) • Solvent-free, environmental friendly, no volatile organic chemicals • Primer required for concrete only. Not required for metal etc. • No substrate cleaning required • Generally no pre-heating required, just for metal substrate with wall > 5 mm • For applications on concrete, the surface pinholes don't get damaged • Positive for food and potable water applications • Easy to handle (low weight spray gun and mixer devices – total equipment weight just 35 Kg) • Simple coating application (direct application, no pre-mixing etc.) • Pre-adjusted mixing device set up for perfect material application
Wall Thickness	In several layers up to 5
Colors	15 basic colors available. Special colors on request.
Material Properties	Density of 0,95 Impact strength ASTM D 1822 at 23°C of 600 KJ/m2 and still 350 KJ/m2 at -40°C Abrasion resistance ASTM D 4060 is 50 mg/1000 cycles ESCR ASTM D1693 >1000 hrs. Impact Strength ISO 6272 @23°C > 2.7 Joule. Brittleness Temperature -76°C Substrate adhesion > 7 N/mm2
Tests	Salt Spray ASTM B117-73 subsurface corrosion less than 1 mm at 2000 hrs.
Product Properties	Process classification temperature of 1200°C,
Application	Depending if a primer is required, the coating is applied in 1 or 2 easy and simple flame spray processes by using a new developed light weight spray gun pre-melting the materials inside the equipment before spraying, so no pre-heating or pre-mixing or other is required. For the spray coating application we offer different Flame Spray equipments and several applicator guns depending on final application. Equipments just need dry compressed air, LPG and our AFS Powder Coating material. Recommended weather conditions and temperatures: Dry and > 5°C.
Storage	2 years storage time indoor.

Contact us for more details.

Discover PESTEC. Discover our ideas.

contact@pes-tec.com
www.pes-tec.com