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PUFFIN LOW & HIGH TEMP 1200

Is an inorganic ceramic copolymer. This product complies to the generic type Multi Polymeric Matrix Coating. It is resistant from low temperatures -90°C to high temperatures up to 550°C continuously. This product can be use as primer or finish coat in atmospheric environments. Suitable for carbon steel, stainless steel and ceramic substrates.

1. Properties

COLOR	Dark grey /silve
GLOSS LEVEL	matt (0-35)
FILM THICKNESS, DRY (μm)	100-150
FILM THICKNESS, WET (μm)	150-200
THEORETICAL SPREADING RATE (M^2/L)	5-7.5
SOLIDS (VOL %)	76 ± 2
DENSITY (g/cm^3)	1.8
FLASH POINT	$26^{\circ}\text{C} \pm 2\%$
Voc (g/l)	302
Tinner	Puffin High Temp Thinner

2. Characteristics

Protective: Specially designed for preventing corrosion under insulation (CUI). Can be use in combination with puffin zinc silacated 500 as primer, providing heat resistance up to 1004°F (540°C) and lasting corrosion protection. For shorter periods, such a combined system can handle peak temperatures up to 1112°F (600°C). Suitable for insulated and non insulated surfaces

3. Usage

1) Substrate Minimum Recommended :

2½ (ISO 8501-1) Carbon steel Sa 2½ (ISO 8501-1)
 Stainless steel: Cleanliness and surface Profile corresponding to Sa 2½, Fine G (ISO 8503-2)
 Aluminium : the surface shall be hand or machine a braded with non Metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface and to remove all polish from the surface. Dry abrasive blast cleaning to SSPCSP 13/NACE No. 6.
 Galvanised steel: The surface shall be clean, dry and appear with a rough and dull profile.
 Light brush blasting using nonmetallic abrasive leaving a clean, rough and even pattern. Coated surfaces Clean, dry and undamaged compatible coating (ISO 12944-4 6.1) Clean, dry and undamaged compatible coating (ISO 12944-4 6.1)

2) Surface preparation:

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

3) Application methods :

The product can be applied by airless spray, air spray , brush and roller Spray, recommended:

Nozzle tip (inch/1000): 17-23 150 bar Pressure at nozzle (minimum): 2100 psi

Brush: Recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.

Roller: Maybe used for small areas. Not recommended for first primer coat. Care must btaken to achieve the specified dryfilm thickness.

4) Drying and Curing time:

SUBTRATE TEMPERATURE	5	10	23	40	°C
SURFACE DRY	5.5	3	2.5	1.5	HOUR
DRY ON WALK	24	18	6	3,5	HOUR
Dry to over coat,	24	18	6	3,5	HOUR
Dried /Cured for service	96	48	24	18	HOUR

Drying and curing times	are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.
Walk-on-dry:	Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints or other physical damage
Dry to over coat, minimum:	The shortest time allowed before the next coat can be applied.
Surface (touch) Dry:	The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

5) Heat resistance		
Temperature	Continuous	Peak
Dry atmospheric	600	Peak temperature duration max. 1 hour

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.

6) Product compatibility	Depending on the actual exposure of the coating system, various primers and topcoats can be used in combination with this product.
Some examples are shown below.	
Previous coat: Zinco-silicate	
Subsequent coat: Silicone acrylic, Multipolymeric matrix silicone acrylic	

4. Precaution :

1) Caution

This product is for professional use only. The applicators and operators shall be trained experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to puffin technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible puffin representative for approval before commencing the work.

2) Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

3) Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Shelf life at 23 °C 24 month(s)

5. Packaging (typical)

500ml, 1 Liter, 5 Liter & 20 Liter

