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# PT. Indowijaya Sakti Teguh

Jl. Pangeran Jayakarta 121/3-4

Telp : 021- 62313238

## PUFFIN HIGH TEMPERATURE 600 BLACK

One component silicone acrylic coating with heat resistant up to 600 °C. This product can be use as primer, mid coat or finish coat in atmospheric environments. Suitable for carbon steel, galvanized steel, stainless steel and aluminium substrates.

### 1. Properties

COLOR	Black satin
GLOSS LEVEL	satin(35-75)
FILM THICKNESS, DRY (µm)	20 – 40
FILM THICKNESS, WET (µm)	45-95
THEORETICAL SPREADING RATE (M <sup>2</sup> /L)	11 -22
SOLIDS (VOL %)	45± 2
DENSITY (g/cm <sup>3</sup> )	1.3
FLASH POINT	28°C ± 2%
Voc (g/l)	446
Tinner	Puffin High Temp Tinner

### 2. Characteristics

#### 1) Protective:

Heat resistant coating

Suitable for insulated and non insulated surfaces. Recommended in combination with an inorganic zinc silicate coating as primer, providing heat resistance up to maximum 600°C and long corrosion protection.

#### 2) Recommended for

Thermal insulation boiler construction ,pipe and other thermal insulation needed



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### 3. Usage

- 1) Substrate Minimum Recommended :
  - 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 abraded with non-Metallic abrasives or bonded fibred machine or hand abrasive pads to impart a scratch pattern to the surface and 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:

For lasting adhesion to the Subsequent product, all surfaces must 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: Nozzle tip (inch/1000): 15-17 100 bar.
  
  - Pressure at nozzle (minimum):1450 psi
  
  - Brush : Recommended for stripe coating and small areas. Care must be taken to achieve the specified dry film thickness.



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Roller: For small areas. Not recommended for first primer coat. Care must be taken to achieve the specified dry film thickness.

#### 4) Drying and Curing time:

SUBTRATE TEM PERATURE	5	10	23	40	'C
SURFACE DRY	60	45	30	15	MINUTE
DRY ON WALK	4	3	2	1,5	HOUR
Dry to over coat, minimum	8	5	4	3	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.

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  
Dry atmospheric

Continuous  
600

Peak  
Peak temperature duration max.  
1 hour

The temperatures listed relate to retention of protective properties.



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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:

Zinc silicate

Subsequent coat:

Silicone acrylic, multi polymeric 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 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 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)

0.5L & 1L & 5L & 20 L