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TECHNICAL DATA SHEET
PUFFIN ASPHALCOAT QD

1. PRODUCT DESCRIPTION

Puffin Asphalcoat QD is a one-component quick-drying hydrocarbon coating formulated with premium bitumen asphalt. It features rapid drying, excellent anti-corrosion protection, and high-temperature resistance up to 120°C. With superior adhesion and hiding power, it is highly suitable for carbon steel, iron, wooden, and concrete substrates. It is widely used for heavy-duty anti-corrosion protection and underbody vehicle waterproofing.

2. PRODUCT FEATURES & RECOMMENDED USE

Key Characteristics

- One-component bitumen asphalt hydrocarbon coating
- Quick drying (QD) formulation
- Heavy-duty anti-corrosion and chemical barrier
- Temperature resistant up to 120°C continuous
- Excellent adhesion and hiding power
- Superior waterproofing and moisture barrier properties

Recommended Uses

- Steel structures, industrial equipment, carbon steel, and iron.
- Underbody vehicle area / undercarriage waterproofing and rustproofing.
- Exterior protective barrier for wooden and concrete substrates.

3. PHYSICAL PROPERTIES & TECHNICAL SPECIFICATIONS

Technical Parameter	Specification / Value
Color	Textured Black / Black
Gloss Level	Satin (45 – 65)
Film Thickness, Dry (DFT)	45 – 120 µm
Film Thickness, Wet (WFT)	60 – 160 µm
Theoretical Spreading Rate	8 – 10 m^2/L
Solids by Volume (Vol %)	75 ± 2 %
Density (Specific Gravity)	1.10 ± 0.05 g/cm^3

Technical Parameter	Specification / Value
Flash Point	Closed Cup: 26°C ± 2°C (36°C)
Practical Coverage	Allow appropriate loss factors (application method, surface profile, etc.)

4. SURFACE PREPARATION

To secure lasting adhesion to the subsequent coating, all surfaces must be clean, dry, and free from any contamination. Oil, grease, loose rust, and dirt must be thoroughly removed prior to application.

Substrate Requirements

Carbon Steel Substrate: Abrasive blast cleaning to Sa 2½ (ISO 8501-1). For minor touch-up, power tool cleaning to St 3 may be acceptable.

Wooden Substrate: Clean, dry, and sound surface. Remove surface contamination with appropriate detergents and clean water washing; allow to dry thoroughly.

Concrete Substrate: Low-pressure water washing to achieve a rough, clean, sound, dry, and laitance-free surface.

Coated Surfaces: Clean, dry, and undamaged compatible coating.

5. APPLICATION METHODS & DATA

Application Methods: Brush, roller, or spray (conventional / airless spray).

Thinner / Dilution: Thinner NC / ND (dilute only as necessary for application).

Cleaning Solvent: Thinner NC / ND immediately after use.

6. DRYING AND CURING TIMES

Drying and curing times are determined under controlled temperatures and relative humidity below 85%, at typical average dry film thickness (DFT):

Substrate Temperature	5°C	10°C	23°C	40°C
Surface (Touch) Dry	30 minutes	20 minutes	15 minutes	10 minutes
Walk-on-Dry	2.5 hours	2.0 hours	1.5 hours	1.0 hour
Dry to Overcoat (Minimum)	2.5 hours	2.0 hours	1.5 hours	1.0 hour

Terminology Definitions

- Surface (Touch) Dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

- Walk-on-Dry: Minimum time before the coating can tolerate normal foot traffic without permanent marks, imprints, or physical damage.
- Dry to Overcoat, Minimum: The shortest time allowed before the next coat can be applied.

7. HEAT RESISTANCE TEMPERATURE

The temperatures listed relate to retention of protective anti-corrosion properties. Aesthetic properties (such as gloss) may suffer at high temperatures.

Condition	Continuous Exposure	Peak Exposure (Max 1 Hour)
Dry Atmospheric Exposure	120°C	140°C

8. PRODUCT COMPATIBILITY & COATING SYSTEM

Depending on the actual exposure and environment of the coating system, various primers and intermediate coats can be used in combination with Puffin Asphalcoat QD:

Recommended Primers for Enhanced Anti-Corrosion Protection

- Puffin Meni Zinc Chromate (Alkyd-based anti-corrosion primer for steel).
- Puffin Epoxy Primer Mastic / Surfacer (Heavy-duty epoxy primer for maximum chemical and corrosion resistance).

9. HEALTH, SAFETY & PRECAUTIONS

Please observe the precautionary notices displayed on the container and follow safe industrial practices:

- Ensure the surface is properly cleaned and degreased before application.
- Use only under well-ventilated conditions. Do not inhale spray mist or solvent vapours.
- Avoid skin and eye contact. Wear protective gloves, overalls, and eye/face protection.
- In case of skin contact, immediately remove spillage with suitable cleanser, soap, and clean water.
- In case of eye contact, thoroughly flush eyes with plenty of clean water for at least 15 minutes and seek medical attention immediately.

10. STORAGE, HANDLING & PACKAGING

Storage Conditions: Store in accordance with national regulations. Keep containers in a dry, cool, well-ventilated space away from sources of heat, sparks, open flame, and direct sunlight. Containers must be kept tightly closed.

Handling: Handle with care. Stir thoroughly before use.

Shelf Life: 48 months at 23°C (unopened original container).

Packing Size: 1.5 kg & 20 Kg