Basekim
Chemical Production Co.Ltd.

TECHNICAL DATA SHEET (TDS)

Bitumen Primer D41

1. Product Name

Bitumen Primer D41 (Solvent-Based Cutback Asphalt Primer)

2. Product Description

Bitumen Primer D41 is a **fast-drying, solvent-based cutback asphalt primer** designed for enhancing adhesion between bituminous membranes and various substrates. It penetrates porous surfaces, seals dust, and creates a strong bonding layer for roofing, waterproofing, and structural protection systems.

D41 contains modified solvents that provide **deep penetration, lower VOC emissions, improved flash point, and superior adhesion** compared to conventional cutback primers.

3. Intended Use / Applications

Bitumen Primer D41 is suitable for:

- Roofing systems
- Waterproofing systems
- Concrete priming
- Metal surface preparation
- Plywood roof decks
- Fiberboard and plasterboard
- Existing asphaltic surfaces
- Tank bottoms and industrial structures
- Siding and acoustical installations

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4. Key Features & Advantages

- **Fast drying (1–5 minutes)**
- **High surface penetration**
- **Excellent bonding strength**
- **Improved flash point (≥100°F / 38°C)**
- **Lower VOC content (≤200 g/L)**
- **Suitable for hot and cold climates**
- **Enhances adhesive performance of cap sheets**
- **Moisture-resistant and weather-resistant**
- **Easy application by brush, roller, or spray**

5. Technical Specifications

5.1 Typical Physical Properties

Property	Test Method	Typical Value
Appearance	Visual	Black liquid
Base Material	—	Cutback Asphalt
Density @ 25°C	ASTM D1475	0.85 – 0.95 g/cm³
Viscosity	ASTM D562	50 – 150 cP
Flash Point	ASTM D93	≥ 100°F (38°C)
Drying Time	ASTM D1640	1–5 minutes
Residue by Evaporation	ASTM D1644	55–70%
VOC Content	EPA 24	≤ 200 g/L
Solubility	—	Soluble in hydrocarbon solvents
Penetration of Residue	ASTM D5	30–70 dmm

5.2 Chemical Composition

Component	Approx. Content
Asphalt binder	60–70%
Mineral spirits	20–30%
Halobenzotrifluoride solvents	5–10%
Adhesive modifiers (optional)	< 2%

6. Coverage Rate

Coverage depends on substrate porosity:

Surface Type	Coverage (m^2/L)
Dense concrete	6–8 m^2/L
Porous concrete	3–5 m^2/L
Metal	8–10 m^2/L
Wood / Plywood	4–6 m^2/L
Asphalt surfaces	6–8 m^2/L

7. Application Guidelines

Surface Preparation

- Surface must be **clean, dry, dust-free**, and free of oil or contaminants.
- Remove loose particles using stiff broom or compressed air.
- Repair cracks and damaged areas before priming.

Application Methods

- Brush
- Roller
- Airless spray
- Pour-and-spread (large areas)

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Recommended Film Thickness

1–7 mils, depending on substrate porosity.

Drying Time

- Touch dry: **1–5 minutes**
- Ready for membrane application: **5–15 minutes**

(Varies by temperature, humidity, and ventilation)

8. Compatibility

Bitumen Primer D41 is compatible with:

- Asphalt membranes
- SBS/APP modified bitumen sheets
- Liquid waterproofing layers
- Hot applied asphalt
- Cold-applied bitumen adhesives
- Concrete, metal, wood, fiberboard, gypsum board

Not recommended for use on wet or water-saturated surfaces.

9. Storage & Handling

- Store in a **cool, dry, well-ventilated area**.
- Keep away from direct sunlight and open flames.
- Storage temperature: **5°C–45°C**
- Shelf life: **12 months** in unopened containers.

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10. Packaging Options

- 20 Liter pails
- 200 Liter steel drums
- Custom packaging available on request

11. Health & Safety

- Highly flammable liquid—keep away from heat and sparks.
- Use with proper ventilation.
- Avoid contact with skin and eyes.
- Refer to the **MSDS** for full safety instructions.

12. Quality Assurance

Bitumen Primer D41 is produced under strict quality control following:

- ASTM D41
- ASTM D5
- ASTM D1475
- ISO production standards

Each batch is tested for consistency, viscosity, flash point, and adhesion.

13. Disclaimer

The data above is based on current technical knowledge and typical production results. Actual values may vary due to environmental factors and project conditions. Users must ensure suitability for their specific application.

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