

TECHNICAL DATA SHEET

PERMATHANE T 137

2K POLYURETHANE FINISH

DESCRIPTION: A high performance, two component and hydroxyl acrylic

polyurethane topcoat, providing excellent resistance of

weathering, water and chemicals.

RECOMMENDED USE: As long-term protection of high-performance topcoat, widely used

for bridges, petrochemicals, power generations, steel structures, wind power, port machineries and offshore facilities etc. under

medium or heavy corrosion environment.

RESISTANCE TO: Moisture – Good Alkali spillage – Moderate

Abrasion – Good Acid spillage - Moderate
Weather – Excellent Aliphatic Solvents – Good

PRODUCT INFORMATION:

Color: Full range of colors & Aluminum finish as per KPC STD

Finish: Matt, Semi-gloss, & High gloss Volume solids %: 50 ± 3 % (ASTM-D2697-86)

V.O.C.: 435 g/l (NB.-Thinning will affect VOC compliance and volume solids)

Typical thickness: 40 - 75 microns dry film thickness Theoretical coverage: 10 m²/liter. @ 50 microns dft

Density: $1.12 \pm 0.1 \text{ g/cc (mixed)}$

Flash point Base: 24°C C/A: 32°C

Mixing ratio: 4: 1 by volume

Shelf life: 24 months from the date of manufacture

Pot life: 2 hours @ 35°C

Pack size: Comp. A - 16 liters + Comp. B - 4 liters = 20 liters

FILM THICKNESS AND SPREADING RATE: MIN. MAX. UNIT Dry film thickness 40 75 μ m Wet film thickness 80 150 μ m

Spreading rate 12.5 6.66 m²/l (theoretical)

This figure makes no allowance for surface profile, uneven application, overspray or losses in containers and equipment. Film thickness will vary depending on actual use and specification.

SERVICE TEMPERATURE: 120°C maximum dry

RECOMMENDED THINNER: Thinner No.7 (10 %)

DRYING & CURING TIME:

SUBSTRATE TEMPRATURE	15°C	23°C	35°C
Touch dry	1 hour	45 mins	30 mins
Hard dry	24 hours	18 hours	12 hours
Fully cured/Cured for service	10 days	7 days	4 days



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SURFACE PREPARATION:

All surfaces should be clean, dry and free from contamination. The surface should be assessed and treated. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

RECOMMENDED COATING SYSTEM:

Primer: Permazinc IO 90, Permazinc 90, Permagrip PI 480,

Permagrip P 400, Permagrip P 984, Permaprime 984 ZR

Intermediates: Permagrip PI 480, Permagrip IT 401, Permagrip IT 653,

Permagrip MIO 80, Permagard IT 653

Topcoat: Permathane T 137

RECOMMENDED APPLICATION METHODS: Airless spray Conventional spray

Brush Roller

APPLICATION EQUIPMENT DETAILS:

AIRLESS SPRAY CONVENTIONAL SPRAY

Nozzle Size: 0.38mm (21 thou)

Nozzle Size: 1.27mm (50 thou)

Fan Angle: 40° Atomizing Pressure: 3.5 Kg/cm² (50 psi)
Operating Pressure: 115kg/cm² (3000 psi) Fluid Pressure: 0.7 Kg/cm² (1s0 psi)

APPLICATION CONDITIONS AND OVER COATINGS:

This material should preferably be applied at temperatures in excess of 10°C. In conditions of high relative humidity, i.e. 80-85%, good ventilation conditions are essential. Substrate temperature should be at least 3°C above the dew point and always above 0°C. At application temperatures below 10°C, drying and curing times will be significantly extended, and spraying characteristics may be impaired. Application at ambient air temperatures below 5°C is not recommended.

HEALTH AND SAFETY:

Please observe the precautionary notices displayed on the container. Do not breathe or inhale 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. Consult Product Health and Material Safety Data Sheet for information on safe storage, handling and application of this product.

Disclaimer: The information in this document is given to the best of KPC Paint's knowledge that based on laboratory testing and practical experience Products are often used under conditions beyond KPC's control and KPC Paints cannot guarantee anything but the quality of the product itself.

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