

DaeHyup

Marine & Offshore Deck
Covering and Spray Insulation

DAEHYUP
Billytex



BILLYTEX PU-100
Polyurethane

 **DAEHYUP TECH**

[illegible]

► Installation Steps

❖ Surface Preparation

Deck surfaces should be free of dust, moisture, oil or grease and be primed with zinc silicate shop primer or equivalent finish. Be sure to check floor conditions (fairing, wavering, deformation, etc.) during cleaning, and completely sealed holes and gaps against inflow.

❖ Installation

- Primer coat (PU-101)
 - Base : 2.0 kg
 - Hardener : 0.73 kg

Poured entire contents of the hardener into the base and mix 1~2 minutes using power drill. The mixed PU-101 to be coated on the surface using a roller or a brush. 1st base coat (PU-102) should be applied after primer coat completely dried.

- 1st Base coat (PU-102)
 - Base : 6.0 kg
 - Hardener : 2.1 kg

Poured entire contents of the hardener into the base and mix 3 minutes using power drill. The mixed PU-102 to be applied on the surface and leveling by using a trowel. Thickness to be measured at 1~2 m intervals. 2nd base coat (PU-103) should be applied after 1st base coat completely dried.

- 2nd Base coat (PU-103)
 - Base : 8.0 kg
 - Hardener : 1.6 kg

Poured entire contents of the hardener into the base and mix 3 minutes using power drill. The mixed PU-103 to be applied on the surface and leveling by using a trowel. Thickness to be measured at 1~2 m intervals. Top coat (PU-104) should be applied after 2nd base coat completely dried.

- Top coat (PU-104)
 - Base : 2.3 kg
 - Hardener : 0.4 kg

Poured entire contents of the hardener into the base and mix 3 minutes using power drill. The mixed PU-104 to be applied evenly on the surface using a roller.

❖ Curing

After application of BILLYTEX PU-100, the compound should be protected against direct heat and sunlight as well as strong wind. Also it should not be exposed under freezing temperature. (Recommended curing temperature is over +10°C).

The floor will be cured after approx. 24 hours, at +18°C and max. 50% relative humidity, however, the curing time may be variable upon the thickness of the applied layer, temperature, relative humidity and the ventilation of the installed area.

❖ Cleaning

Use water for cleaning tools before the compound is cured.

❖ Shelf-life

12 months.

❖ Caution

Ambient temperature should be above +10°C during installation.

The prepared PU compound should not be exposed to moisture and a temperature which is below +10°C before the curing process is completed.

Unmixed parts of PU-100 may not be exposed to moisture and freezing temperature. If the base becomes too stiff at low temperature, the material may be conditioned to a higher temperature before mixing.

For additional technical information, please contact to our technical department.

► Technical data

Basis	Urethane
Density (g/cm ³)	Approx. 1.3
Chemical proofing	Proof
Fire resistance	Primary deck covering
Water absorption (%)	0.0005 (24 hours)
Oil absorption (%)	0.0005 (24 hours)
Fire resistance	Primary deck covering
Thickness (mm)	5.5 (standard)

► Application method

Process	Material		Total thickness				Remark
			5.5 mm	6.5 mm	7.5 mm	10.5 mm	
Primer Coat	PU-101	Thickness (mm)	0.2	0.2	0.2	0.2	
		Quantity (kg/m ²)	0.3	0.3	0.3	0.3	
1 st Base Coat	PU-102	Thickness (mm)	3.0	4.0	5.0	7.0	
		Quantity (kg/m ²)	3.9	5.2	6.5	9.1	
2 nd Base Coat	PU-103	Thickness (mm)	2.0	2.0	2.0	3.0	
		Quantity (kg/m ²)	2.6	2.6	2.6	3.9	
Top Coat	PU-104	Thickness (mm)	0.3	0.3	0.3	0.3	
		Quantity (kg/m ²)	0.5	0.5	0.5	0.5	

Notes :Quantity maybe changed depending on working condition.

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DAEHYUP TECH CO., Ltd. provides comprehensive marine deck covering products such as powder, latex, epoxy and urethane types.

We have been developing our products more than three decades through various experiences in manufacturing and installations.

The quality of our products is assured by ISO 9001:2000 and approved by major authorities including leading classification societies in compliance with the IMO rules.



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