



PFPU-4110

Aliphatic Polyurethane Top Coat

➤ Description:

PFPU-4110 is a two-component top coat based on Aliphatic Polyurethane resin. It provides high performance, excellent corrosion resistance, good adhesion, good UV resistance and mechanical properties. PFPU-4110 is compatible with epoxy and polyurethane coating systems.

➤ Advantages:

- High adhesion and hardness on metal substrates
- Excellent UV resistance
- Excellent durability in marine and industrial environments
- High water-, impact- and abrasive resistance
- Good weather resistance

➤ Main uses:

- Coating of metal and marine structures, bridges, external surface of tanks, ship body and decks
- Metal structures in chemical and petrochemical industries, power plants
- Tanks and pipes in wastewater treatment plants
- As a UV protective layer on Epoxy and Polyurethane systems

➤ Physical properties:

| | |
|--------------------------------|--|
| Color | Various colors |
| Gloss | Gloss |
| Components | 2 |
| Mixing Ratio by weight | A:B =7:1 |
| Mixing Ratio by volume | A:B=4.5:1 |
| Solid content (A+B) | 70±5 % |
| Density (A+B) | 1.52±0.05 g/cm ³ |
| Recommended dry film thickness | 80 micron |
| *Theoretical coverage | 0.17 Kg/m ² |
| Curing method | Solvents evaporation and chemical reaction |
| Thinner | T-900 |
| Packaging | A: 21 Kg B: 3 Kg |

* No material loss is considered in theoretical coverage calculation.

➤ Processing properties:

| | |
|------------------|-----------|
| Pot life | 2 hours |
| Tack free time | 1-2 hours |
| Post curing time | 8 hours |
| Full curing time | 7 days |



➤ **Application Guide:**

- Surface preparation:

All surfaces must be clean, dry and free from contaminants, grease, dust, rust, moisture and any loose particles. The contamination result in decrease adhesion. Cleaning process is done using proper washing agents. The surface should be prepared well, if the paint is applied directly on the surface. Over coating interval should be respected if the paint has been applied multi-layer.

- Application:

After surface preparation, part A was stirred separately, then two components should be thoroughly mixed (according the mixing ratio) by using a suitable mixer until a homogenous solution is achieved. The paint can be diluted with T-900 thinner gradually while mixing.

PFPU-4110 is applied using conventional air or airless spray, immersion, brush and roller. Small damaged or unpainted area can be repaired by bush. Using suitable ventilation is necessary while paint application is done in close places.

All tools should be washed with T-900 thinner after the application.

- Ambient condition:

Ambient temperature should be in range of +10 °C to +50 °C during paint application.

➤ **Storage:**

12 months, in unopened package & protect from direct sun light and heat source at +5 °C to +30 °C.