

**Mold Release Agents and Curing Compounds / Mold Release Agents**

# POLYFORM STEEL

Steel, Tunnel Mold Release Agent

**DESCRIPTION**

**High quality, ready-to-use** mold release agent that allows the mold to be separated easily from the concrete by preventing the adhesion between the fresh concrete and the mold. **Resistant to steam cure.** Provides a smooth and spotless surface. Especially developed for effective results in large surface concrete molds.

**APPLICATION AREAS**

- Especially for tunnel-steel mold systems which are heated and applied steam curing
- Smooth molds with low absorption
- Plywood mold systems
- Polyester mold systems
- Precast and sliding mold surfaces
- Large surface concrete molds with details.

**TECHNICAL PROPERTIES**

<b>Appearance</b>	Dark brown liquid
<b>Liquid Density</b>	0.86 ± 0.02 kg/L (20°C)
<b>Kinematic Viscosity</b>	15 - 20 cSt (+40°C)
<b>Application Temperature</b>	≥ 5°C

**ADVANTAGES**

- Avoids rust and prevents corrosion in steel molds
- Ready to use, applied directly without diluting
- Resistant to heat and steam curing
- Provides perfect results in smooth molds with low absorption
- Easy to apply
- Allows the mold to be quickly dismantled
- Reduces bubbles on the concrete surface and enables a smooth and spotless surface
- Minimizes the need for cleaning in repeated uses of the molds. Reduces mold and labor costs significantly
- Does not cause blocking in the spraying machine as it is highly fluid
- Extends the life of the mold
- Does not contain solvent.

**CONSUMPTION**

Varies depending on the type of the mold; 1 L POLYFORM STEEL lubricates about 17 - 26 m<sup>2</sup> of mold surface when applied with a roller, and 35 - 43 m<sup>2</sup> when sprayed with a pressurized pump.

**PACKAGING**

30 L plastic jerry cans and 210 L barrels

## APPLICATION

### PREPARATION OF THE SURFACE

Clean the mold surfaces carefully before using POLYFORM STEEL. The molds should be clean of concrete, wood, iron pieces, snow and ice.

### MIXTURE

- POLYFORM STEEL is **ready-to-use**. Do not add any substance (water, solvent, etc.) to the product.
- Shake well before use.

### APPLICATION

- Spray POLYFORM STEEL homogeneously or apply with a roller as a thin layer (one coat) on the mold for best results.
- Do not allow the material to accumulate on the surface and spread it evenly over the entire surface.
- In spraying applications, the ideal amount of use should be reached by experimenting.

### CAUTION

- Make sure that the mold surfaces are thoroughly cleaned before the application. Excessive use causes ripples and stains on the concrete surface. Therefore, determine the appropriate consumption amount by preliminary tests to be carried out under construction site conditions.
- During the application, do not allow accumulation on the mold surfaces.
- Protect newly applied molds from rain before pouring concrete.
- Do not apply under +5°C and heavy rain.
- It is a ready-to-use product, never add water to the product.

### SHELF LIFE

Expires in 12 months. Store unopened packages between +5°C and 30°C in a cool and dry environment. Shake well before use. Protect from frost.

### HEALTH AND SAFETY

As with all chemical products, avoid contact with food products, skin, eyes and mouth during use and storage. During the application, use work clothes, protective gloves and glasses in accordance with the occupational and worker health rules. Consult a doctor if accidentally swallowed. In case of contact with skin, rinse with water. Do not bring food and beverage into the application areas. Do not smoke during the application, do not use tools that can produce sparks (fans, etc.). Ventilate the areas. Do not leave the cover open. Store out of the reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Yapı Chemicals San. Trade Ltd. Sti. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.



Form No: 5.01 TDS Polyform Steel  
Rev: 03 – 08/2022

## Technical Data Sheet (TDS)

Date  
01 August 2022

Page  
3 / 3

