

# Safegrip PU XD/HD April 2011

**Durable safety- and antiskid coating for the marine industry.**

## DESCRIPTION

Safegrip is a durable and slip resistant coating with a low weight. It is designed for steel, concrete, wood and aluminum. *Safegrip* is ideal for footbridges, bridges, roro ramps, ferry ramps, helidecks, platforms, gangways etc. As Safegrip is spark free and has a low spread of flame it is well suited for drilling rigs and ferry decks.

*Safegrip* is a three component polyurethane based slurry. Special aggregates are to be dressed over the slurry when it is still wet. The Safegrip system is light in weight, and has a very good skid resistance. In addition it reduces noise. The thickness on the finished coating is 3 – 7 mm, depending on the chosen system. The components are delivered in preweight set ready for use.

<b>Low weight:</b>	This is important regarding specifications of ship ramps etc.
<b>Durable:</b>	Different projects around the world proves its durability.
<b>Flexible:</b>	Good flexibility and tensile strength
<b>Skid resistant:</b>	Provides safe traffic under dry and wet conditions.
<b>Aqua planing:</b>	Prevent aquaplaning on bridge decks.
<b>Waterproof:</b>	Protects against corrosion
<b>Low spread of flame:</b>	Tested according to the demands of Lloyds Register of Shipping.
<b>Sparkle free:</b>	No sparking when use of Dynagrip
<b>Rapid curing:</b>	Ready for light traffic after 2 - 3 hours at 20°C.

## SPECIFICATIONS

<b>Pot life:</b>	10 - 12 min. at 20°C.
<b>Curing time at 20°C:</b>	4 hours.
<b>Ready for light traffic:</b>	2 - 4 hours depending on temperature.
<b>Fully cured:</b>	90% after 24 hours. 100% after 7 days.
<b>Gravity weight:</b>	XD 1,6 HD 1,45
<b>Solvents:</b>	Solvent free.
<b>Elongation:</b>	
XD (pure resin)	120 %
XD (with 60% filler)	19 %
HD (pure resin)	120 %
HD (with 50% filler)	25 %
<b>Tensile strength:</b>	
Incl. filler:	XD 10 Mpa HD 9 Mpa
<b>Adhesion:</b>	
Concrete	>5 N/mm <sup>2</sup>
Steel	>7 N/mm <sup>2</sup>
Asphalt	>3 N/mm <sup>2</sup>
Wood	>5 N/mm <sup>2</sup>

## TEMPERATURE LIMITATIONS

Recommended temperature is: 5°C - 30°C. Please contact **FJERBY A/S** if the temperature differs from these.

## CHEMICAL RESISTANCE

<b>Fully cured <i>Safegrip</i> is resistant against the following chemicals:</b>	
Gasoline	Diesel
Aero plane fuel	Kerosene
Hydraulic oil	Salt
Diluted mineral acid and alkaline.	10% urea in water



**IGNITION FROM SPARKLING**

At a test from an independent institute *Dynagrip* was repeatedly hit by an iron object that should make sparkles. The test was carried out in a highly explosive propane filled box. Ignition did not happen, and the test laboratory Yarsley Technical Centre came to the conclusion that sparkles from *Dynagrip* was not dangerous under these conditions.

**APPLICATION**

*Safegrip* is suited for different surfaces. The correct preparation of the surface is important for the final result.

**STEEL**

Steel shall be grit blasted to SA 2,5 with a profile of minimum 65 µ. Immediately after gritblasting the surface has to be primed with *Safepriime PU3* which has a curing time of 1 - 2 hours at 20°C. The primer is applied by roller. If the primer has cured more than 23 hours the area has to be grit blasted again. The best adhesion is achieved within 15 hours.

**CONCRETE**

The concrete shall be dry (less than 5 % humidity) and clean. The surface shall be grit blasted or grinded followed by vacuum cleaning. The concrete is then ready for application of *Safepriime PU2* by roller. The primer shall be rolled evenly without ponds. Drying time is about 1,5 hours at 20°C. Before application all solvents must have evaporated. If primer is left for more than 23 hours then a second coat should be applied and left as above before application of *Safegrip*.

**WOOD**

The wood shall be clean and dry. Use same primer and method as with concrete.

**ALUMINIUM**

The surface shall gritblasted or grinded to get a good profile in the surface. Use same primer and method as with steel.

**GALVANISED STEEL**

It shall be grit blasted to get rid of the excess salts from the galvanized surface Use same primer and method as with steel.

**ASPHALT**

The asphalt must be dry and clean. It is not necessary with a primer on asphalt

	Coverage m <sup>2</sup> /l	Curing time at 20°C	Maximum time before over coating
<i>Safepriime PU3</i>	8-12	1 – 2 hours	23 hours
<i>Safepriime PU2</i>	6-10	3 hours	23 hours

**LIMITATIONS**

Lowest temperature:	5°C *
Max. humidity:	80% R.H
Surface temperature:	3°C above the dew point

\*)When applied at 5°C or lower, please contact Fjerby A/S for more details.

**PACKAGING**

*Safegrip XD* is supplied in 25 kg, 12,5 kg and 5 kg set. *Safegrip HD* is supplied in 30 kg and 15 kg set. *Safepriime PU3* is supplied in 1 and 5 l tins. *Safepriime PU2* is supplied in 5 l tins.

**CLEANING**

Tools and equipment are cleaned with a solvent.

**SAFETY DATASHEETS**

See our health and safety datasheets.

**STOCKING**

*Safegrip* and primers can be stocked for 12 months at 20°C if the containers are not opened.

**TECHNICAL SERVICE**

**FJERBY A/S** is at disposal regarding advises in the use of the *Safegrip*.

All the data and suggestions in this datasheet is based on tests and experiences. As the users working conditions is out of our control, we cannot take the responsibility for the results that the user obtains by using the product.

