



TIBCHEMICALS

PROTEGOL® UR Coating 32-60 cartridge

Solvent-free, two-component polyurethane coating compound in a twin-cartridge

Application instructions

Description of the product

PROTEGOL® UR-Coating 32-60 is a solvent-free two-component polyurethane coating compound with a 1:1 mixing ratio and fulfilling the requirements of DIN EN 10 290 "Steel tubes and fittings for on and offshore pipelines - External liquid applied polyurethane and polyurethane modified coatings". The product is applied with a special pneumatic spray device.

Application procedure

Concerning the arrangements to be taken in regard to the preparation of the substrate, the coating and the waiting periods, please consult the relevant technical data sheets.

The necessary equipment for application includes:

- Twin-cartridges filled with PROTEGOL® UR-Coating 32-60, comp. A and B, together 600 ml (i.e. 0.72 kg), or 1,600 ml (i.e. 1.92 kg) (S/No. 206460H30C for 600 ml/0.72kg; S/No. 206460H33A for 1,500 ml/1.92kg) (See picture 1)
- Static Mixer with spray orifice (See picture 1)
- Special pneumatic spray device (S/No. 303389 for 600 ml cartridges; art. no.: 303421 for 1,500 ml cartridges, each equipped with air regulator kit S/No. 303388) (See picture 2) as a complementary accessory to adjust the spraying pressure.
- Compressor unit (capacity: minimum 6 bar, suction capacity: 650 l/min.)

1.



2.



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TIB Chemicals AG | Muelheimer Strasse 16 -22 | 68219 Mannheim | P. O. Box 81 02 20 | 68202 Mannheim | Germany
Phone +49 621 8901-812 | Fax +49 621 8901-902 | info.protegol@tib-chemicals.com | www.tib-chemicals.com

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Conditions for proper work with the cartridge system:

- Air supply for the pneumatic device should be free of water and grease and the minimum pressure should be approx. 6 bar.
- Prior to coating, the material must be adjusted to the required temperature of 25°C to 30° C (77°F to 86°F) to achieve a proper viscosity of the material and a proper spray fan.

Equipment preparation and application procedure:

- Open the half moon caps on top of the cartridges and connect the static mixer with the cartridge by screwing on the static mixer. Insert the cartridge into the pneumatic spray device. Pay attention that the pushing disks of the device are properly adjusted into the cartridges. Connect the spray orifice with the air supply. Connect the device to the compressor unit and adjust a proper spray pressure, approx. 2 to 3 bars. (See pictures 3 and 4.)
- Flush the mixer with the material until proper mixed material passes the orifice. Always ensure that possibly entrapped air inside the cartridge is pulled out through the mixer.
- Start to coat the prepared surface within a distance of approx. 50 cm

3.



4.



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Health and Safety

Although PROTEGOL® UR 32-60 is solvent free, it may, if processed at elevated temperatures, develop vapours, which may cause irritation to the skin. It must be ensured by suitable measures, such as continuous ventilation, mechanical extraction or respiratory protection that such vapours and any mist eventually forming during the spraying process are not inhaled. Therefore we recommend wearing filter or fresh air masks.

The unprotected skin should not be allowed to come in contact with component B. If any of the material has accidentally splashed onto the skin, the affected area should immediately be washed thoroughly with warm soapy water or better with warm non-alkaline cleaners (e.g. Lutrol E 400, BASF). Clean again thoroughly with soap.

When using PROTEGOL® UR 32-60 all safety precautions applicable to handling polyurethane resins and their hardeners must be observed. They are listed in the „Merkblatt für den Umgang mit Isocyanaten“ (Instructions for handling isocyanate) which is available on request.

In addition, the health and safety precautions being effective in the respective country must be observed.

According to the regulations on dangerous substances, component B of PROTEGOL® UR 32-60 is liable to danger identification.

ALWAYS:

Read our technical information including MSDS and follow the “Health and Safety” instructions. Contact TIB if you should not have it at hand.

Use protective eye & ear equipment when operating

Wear a face mask or respirator when operating

Test the forward/reverse function before loading a cartridge

Disconnect the air supply before starting any maintenance/cleaning tasks

Make sure the cartridge is loaded properly

Use a new static mixer

Make sure you do not have cross-contaminated the contents of the two cartridges as it may have cured in one of the sides

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NEVER:

Connect the air applicator to an air supply that can exceed 115 psi (7,92 bar).

Immerse the device in solid

Operate the device with loose, broken or missing parts

Carry the device by the air pipe

Use damaged cartridges or the wrong type of cartridge in the applicator

Point the applicator at another person or animal

Disassemble the handle and adjust the safety valve inside

Use a static mixer that has material inside that has been cured

Use partially extruded cartridges unless you use a new static mixer and know there is no cross contamination.

Use expired material or material that has been cured

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