

PRODUCT DESCRIPTION

REFLO 2209 PU Coat is a high build solvent free urethane extreme impact and abrasion resistant coating designed for the protection of pumps, valves, pipes, chutes, hoppers, vessels, tanks and associated equipment.

TYPICAL APPLICATIONS

Suitable for coating surfaces suffering from severe erosion, abrasion, corrosion and impact damage such as:

- Pumps
- Pipe spools
- Tank lining
- Effluent systems
- Agitators
- Chutes and hoppers

SURFACE PREPARATION

STEEL SUBSTRATE

For optimum performance steel substrates should be abrasive blasted to ISO 8501/4 Standard SA2.5 (SSPC SP10/NACE 2) and a minimum blast profile of 75 microns using an angular abrasive. Remove all residual blast debris and the surfaces inspected. Profile checks should be taken and recorded. Once blast cleaned, the surface must be degreased and cleaned using MEK or similar type material. All surfaces must be repaired before rusting or oxidation occurs.

PLEASE NOTE: Salt contaminated surfaces must be pressure washed with fresh clean water and checked using a suitable chloride measurement gauge. This process must be repeated until all ingrained contaminants have been sweated out of the surface.

Where abrasive blast cleaning is not possible (excluding salt contaminated surfaces) the surface should be roughened by MBX, needle gun or grinding. Under these conditions adhesion levels will not be optimal although still satisfactory for most applications.

CONCRETE SUBSTRATE

Allow new concrete to cure for a minimum of 21 days and check the moisture content of the concrete prior to coating (8% moisture content or below). Lightly scarify the surface taking care not to expose the aggregate. Clean all dust and debris from the surface. On damp or green concrete, condition with Reprime 6505 DS. Where surface is dry

apply REPRIME 6503 AP at 150 microns (6mil) WFT, leave to cure for 3 hours (20°C/ 68°F) before overcoating.

MIXING AND APPLICATION

PRECAUTIONS

Warm the Base component to 15-25°C (60-77°F) before mixing and do not apply when the ambient or substrate temperature is below 5°C (40°F) or less than 3°C (37°F) above the dew point

MIXING AND APPLICATION

Pour the contents of the Activator unit into the Base container ensuring that as much material is drained from the Activator container as possible. Mix the two components together until they are streak-free.

From the commencement of mixing the material should be used within 15-20 minutes at 20°C (68°F). Where more time is required material can be kept cooled prior to and after mixing. Smaller mix sizes can be also used. Material can be applied by brush with a target thickness of 750-1,000 microns. For very high impact applications it may be necessary to apply the material at higher thicknesses. Subsequent coats should be applied within 24 hours. Where the maximum over-coating time is exceeded, the material should be allowed to harden before being abraded or flash blasted to remove surface contamination.

CURE TIMES

At 20°C (68°F) the applied materials should be allowed to harden for the times indicated below before being subjected to the conditions indicated. These times will be extended at lower temperatures and reduced at higher temperatures:

Usable life by brush application	15 - 20 minutes
Movement without load or immersion	2 hours
Light loading	4 hours
Water/ sea water immersion	3 days
Chemical immersion	7 days

COVERAGE RATES

1ltrs (0.25 US gallon) of fully mixed product will give the following coverage rates –
2.0m² at 500 microns 21.5ft² at 20mil

4ltrs (1 US gallon) of fully mixed product will give the following coverage rates –
13.32m² at 300 microns 143ft² at 12mil

Please note that the coverage rates quoted are theoretical and do not take into consideration the profile or condition of the surface being coated.

**TECHNICAL DATA SHEET:
REPFLO 2209 PU Coat**

OVERCOATING TIMES

Minimum - the material can be over-coated as soon as it is touch dry

Maximum - the over-coating time should not exceed 24 hours.

Where the maximum over-coating time is exceeded, the material should be allowed to harden before being abraded or flash blasted to remove surface contamination.

UNIT SIZES

Product is available in the following pack sizes –
1ltrs (4.12US gallon)
4litrs (1 US gallon)

COLOURS

Mixed Material	Mid Grey, Light blue
Base Component	Mid Grey, Light blue
Activator Component	Amber

STORAGE LIFE

The shelf life of the product is typically 2 years if unopened and stored in cool dry conditions (15-30°C/ 60-86F°). Once opened replace the lid firmly and store as above.

TECHNICAL SUPPORT

Zoom Corrosion Technology offer complete technical support and assistance, from discussing application requirements to training approved local contractors. For further information please contact a REPCO representative or your nearest REPCO authorised dealer.

TECHNICAL DATA

Tensile Strength 25° ASTM D1002	200 kg/ cm ² (2850 psi)
Elongation at Break (25°C)	30%
Hardness Shore D ASTM D2240	80
Corrosion Resistance (ASTM B117)	5000 hours

Please see the REPFLO 2209 PU COAT Product Specification Sheet for detailed technical and performance data.

HEALTH AND SAFETY

Please refer to the product safety data sheet for detailed information on handling, storage, shipping and disposal.

Legal Notice: The data contained within this Technical Data Sheet is furnished for information only and is believed to be reliable at the time of issue. We cannot assume responsibility for results obtained by others over whose methods we have no control. It is the responsibility of the customer to determine the products suitability for use. Zoom Corrosion Technology accepts no liability arising out of the use of this information or the product described herein.

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