

PRODUCT DESCRIPTION

REPCHEM 5501 IGCR is a high build solvent free epoxy coating designed for the long term protection of steel and concrete structures against corrosion and chemical attack. The product has excellent adhesion to surfaces prepared by hydro blasting, mechanical methods or abrasive blasting

TYPICAL APPLICATIONS

Suitable for coating surfaces suffering from severe erosion, corrosion or abrasion such as:

- Cold Water lines
- Pipework
- Chemical tanks internal and external
- Process Equipment
- Pressure vessels
- Chemical Containment areas
- Structural Steel
- Sheet/bearing piles

SURFACE PREPARATION

STEEL SUBSTRATE

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.

Hydro Blasting of steel must be done using clean water at 12,000 psi (850bar) to NACE 5 (SSPC SP13 WJ3-WJ1).

Mechanical surface preparation can be sufficiently achieved using a bristle blaster or hand held grinders to ISO 8501/4 ST3 (SSPC SP3 ST3)

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.

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.

The surface is now ready to 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

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 using an electric paddle mixer. Pour the mixed material into a paint tray for ease of application and to maximise the usable life. Using a stiff bristled brush coat all areas of the equipment at 250 microns (10mil).

From the commencement of mixing the material should be used within 30 minutes at 20°C (68°F).

As soon as possible after application of the first layer, apply a further coat as above. If the maximum over-coating time is exceeded, the first layer should be brush blasted or abraded before applying the second coat.

Coverage Rates

3.4ltrs (0.8 US gallon) of fully mixed product will give the following coverage rates –
13.6m² at 250 microns 146ft² at 10mil

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

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	30 minutes
Minimum overcoating time	4 hours
Maximum overcoating time	36 hours
Water/ sea water immersion	3 days
Chemical immersion	5 days

TECHNICAL DATA SHEET:
REPCHEM 5501 IGCR

UNIT SIZES

Product is available in the following pack sizes –
3.4ltrs (0.8 US gallon)
16litrs (4.2 US gallon)

COLOURS

Base Component	Light Grey, Dark Grey, Red
Activator Component	Amber

STORAGE LIFE

The shelf life of the product is typically 5 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 DATA

Please see the **REPCHEM 5501 IGCR 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.

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.

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