

PRODUCT DESCRIPTION

REPCHEM 5512 UCEN 90 is a high build solvent free high functionality epoxy novolac coating designed to provide outstanding long term chemical and corrosion protection of steel and concrete structures at elevated temperatures. The coating has been designed to be applied using heated plural feed spray pumps and once cured will resist high concentration of chemicals such as 98% Sulphuric acid at immersion temperatures of 75°C.

- Solvent Free Epoxy Novolac Coating
- Applied by spraying in a single coat
- Excellent adhesion to Steel and Concrete
- Resistant to full immersion in high concentration of acids at elevated temperatures

TYPICAL APPLICATIONS

Suitable for coating equipment suffering from severe erosion, corrosion or chemical attack such as:

- Test Separators
- Production Separators
- Knock out drums
- Suction drums
- Slug catchers
- Gas scrubbers
- Chemical tank lining
- Chemical containment areas
- Chemical drains and channels
- Pipe spools

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.

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 10°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.

SPRAY APPLICATION

1. Spray application should be carried out by heated plural feed spray pump.
2. The temperature of the base component should be kept around 35°C (95°F).
3. Spray pressure of 3600psi with a tip size of 19-23 thou should ideally be used.
4. Using a 50mm (2") wide synthetic brush, stripe coat all edges, joints, corners and equipment with the mixed material. The stripe coat must be approximately 100mm (4") wide, at 400 microns (12-16mil) wet film thickness.
5. Once the stripe coat has cured sufficiently and is capable of being overcoated, apply REPCHEM 5512 UCEN 90 to all surfaces at 1,000 microns. During application, frequent Wet Film Thickness (WFT) checks should be taken using a suitable gauge.

For more detailed application procedures please consult your local REPCO dealer.

TECHNICAL DATA SHEET: REPCHEM 5512 UCEN 90

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 minutes
Minimum overcoating time	4 hours
Maximum overcoating time	12 hours
Water/ sea water immersion	4 days
Chemical immersion	7 days

FOR OPTIMAL PERFORMANCE

After an initial curing period of at least 12 hours at 20°C (68°F), raising the cure temperature progressively to 60°C - 80°C (140-175°F) for up to 8 hours will result in improved mechanical, thermal and chemical resistance properties

COVERAGE RATES

1ltrs (0.25 US gallon) of fully mixed product will give the following coverage rates –

2.5m² at 400 microns 26ft² at 16mil

16ltrs (4.2 US gallon) of fully mixed product will give the following coverage rates –

16.0m² at 1,000 microns 171ft² at 40mil

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

OVERCOATING TIMES

Minimum - the material can be over-coated as soon as it is touch dry, approximately 4 hours at 20°C (68°F).

Maximum - the over-coating time should not exceed 12 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 (0.25 US gallon)
16litrs (4.2 US gallon)

COLOURS

Base Component	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/ 60-86°F). Once opened replace the lid firmly and store as above.

TECHNICAL DATA

Please see the REPCHEM 5512 UCEN 90 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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