

# Reco-Cool Multi-Vehicle Concentrate Antifreeze/ Coolant

**Premium quality Antifreeze/ Coolant Concentrate that has been tested to be compatible with all automotive and light duty truck antifreeze/ coolant products available in the market today.**

**Reco-Cool Multi-Vehicle Concentrate Antifreeze/ Coolant is based on Recochem's proprietary hybrid organic acid technology and has been specifically designed for complete mixed fleet use. It can be used in all makes and models passenger vehicles, light duty and heavy duty diesel applications. Reco-Cool Multi-Vehicle Concentrate not only guards against freezing and boil-over, it also provides critical protection against corrosion.**

## Applications

Reco-Cool Multi-Vehicle Concentrate Antifreeze/ Coolant is a low silicate, organic additive, ethylene glycol based, extended service product, which is free of phosphates, borates, nitrites and amines. It will provide extended protection against rust, corrosion and pitting caused by cavitation for all coolant system metals, including aluminium. It also provides protection against wet sleeve liner cavitation and is compatible with the flux found in controlled atmosphere brazed (CAB) radiators.

Reco-Cool Multi-Vehicle Concentrate Antifreeze/ Coolant offers excellent protection against temperature extremes, preventing freeze-up and boil over when used in accordance with OEM and product manufacturer's guidelines regarding product dilution.

## Performance Features and Benefits

When Reco-Cool Multi-Vehicle Concentrate Antifreeze/ Coolant is added as an initial fill and properly maintained in accordance with engine manufacturer's maintenance recommendation, it will provide up to 250,000km (150,000 miles) or 5 years of service life protection in automotive application and up to 1,000,000km (600,000 miles) or 6 years of service life protection in heavy duty diesel use.

- Complete mixed fleet use; automotive, light and heavy duty diesel
- Borate, nitrite, amine and phosphate free
- Add as top-up to any colour antifreeze
- Protects coolant system metals such as brass, copper, solder, steel, cast iron and aluminium

- Protects against wet sleeve liner cavitation
- Enhanced water pump performance
- Fully compatible with inorganic, hybrid and organic acid coolant technologies
- Compatible with CAB radiators
- Extended service life

## Specifications and Approvals

Recommended applications:

General Motors  
Ford  
Honda  
Chrysler  
Mercedes-Benz  
Toyota  
VW  
Nissan  
Hyundai  
Suitable in mixtures with all major coolant types for service fill

Reco-Cool Multi-Vehicle Concentrate Antifreeze/ Coolant has been fully tested and meets and exceeds ASTM D-3306. It passes fully the following coolant tests:

ASTM D-4340 Hot Service Aluminium Protection  
ASTM D-1384 Corrosion Protection  
ASTM D-2809 Water Pump Cavitation  
ASTM D-1881 Foaming Characteristics  
ASTM D-2570 Metal Protection

Coolant concentrate must be diluted with water prior to use. Reco-Cool Multi-Vehicle Concentrate Antifreeze/ Coolant should not be used in concentrated form. A 50% dilution is generally recommended for the best balance of protection against freezing, corrosion and summer boil over. For increased freeze protection in extremely cold areas, a 60% volume concentration can be used.



### Health & Safety

Guidance on Health and Safety is available on the appropriate Material Safety Data Sheet, which can be obtained from your Recochem representative.

### Protect the Environment

Take used coolant products to an authorised collection point. Do not discharge into drains, soil or water.

### Extended Shelf Life

When stored undercover, away from moisture and direct sunlight, this product should be suitable for use for up to two years after manufacture. Product should not be left in open unsealed containers due to possible water loss.

## Typical Physical and Chemical Characteristics

Reco-Cool Multi-Vehicle Concentrate Antifreeze/ Coolant	Performance	Test Method
pH <sup>a</sup>	7.5 – 9.0	ASTM D1287
Specific gravity <sup>b</sup>	1.120 – 1.140	ASTM D1122
Freeze point <sup>a</sup> , °C (°F)	-37 (-34)	ASTM D1177
Foam volume, ml	150 max.	ASTM D1881
Foam break time, second	5 max.	ASTM D1881
Reserve Alkalinity, ml	5.0 min.	ASTM D1121
Chloride, ppm	25 max.	ASTM D3634
Colour	Pale Yellow/Green	
Glycol Content (wt.%).	94 min.	
Silicon, from silicate (ppm)	250 max.	ASTM D6130
Boron (ppm)	< 10	
Phosphorous (ppm)	< 10	

<sup>a</sup> 50% volume aqueous solution

<sup>b</sup> Measured at 15.6°C/60°F

These characteristics are typical of current production. Whilst future production will conform to Recochem's specification, variations in these characteristics may occur.

