

## Premix-60% RO Water, 30% P. Glycol, 10% OptiShield 400335, DIRECTIONS FOR USE

This OPTISHIELD® Premix is a "pre-mixed" solution consisting of 10% OPTISHIELD® concentrate, 60% RO water, and 30% Propylene Glycol (uninhibited). The solution provides burst and freeze protection (burst -15°F, freeze 11°F) and corrosion for a broad range of materials in "closed circuit" re-circulating systems. It offers an alternative to mixing solutions on site particularly when the locally available water is of low quality or suspected of contamination.

There are two basic types of protection: "burst protection" and "freeze protection."

1-Burst protection is sufficient if the system will remain dormant when the temperature is below the freezing point of the solution. Burst protection is considered an appropriate safeguard in systems where there is adequate space to accommodate the expansion of an ice/slush mixture *and* the system is inactive during the winter.

2- Freeze protection is required in systems where fluid must be pumped at the lowest anticipated temperature. Freeze protection is essential in cases where no ice crystals can be permitted to form or where there is inadequate expansion volume available to accommodate ice/slush formation.

This OPTISHIELD® Premix is suitable for use in most "new" and "existing systems" when used in accordance with directions. However when used with existing systems which may contain excess scale, oxidation, and sediment, it may be advisable to first flush the system with a mild cleaning agent. Contact your equipment manufacturer and/or OPTI TEMP for recommendations on appropriate cleaners.

**Caution:** Some cleaners and/or additives can be harmful to certain system components. Check with the equipment manufacturer for compatibility with the system before using this OPTISHIELD® Premix or any other additives. Use of unapproved products may void your equipment warranty.

**Filtration:** It is strongly recommended that particle filtration be installed on all re-circulating systems, particularly for those systems where corrosion, scale, and other containments may already exist. Use of this OPTISHIELD® Premix will tend to loosen and free containments over time. **TO PROTECT PUMPS, SEALS, AND OTHER COMPONENTS INSTALL FILTERS ON THE RETURN SIDE OF THE SYSTEM!** Please note that filter type and minimum recommended particle sizes may vary by application. Contact your equipment manufacturer or OPTI TEMP engineers for more information and recommendations.

**\*Dispose of according to local, state, and federal regulations. Store this OPTISHIELD® PreMix at room temperature. Keep container closed when not in use and out of direct sunlight.**

### WHEN DO I CHANGE THE OPTISHIELD® Premix SOLUTION?

OPTI TEMP INC. recommends changing this OPTISHIELD® Premix solution annually. **Failing to change the solution when prescribed can lead to serious corrosion problems.** Please follow all directions.

The time between successive changes generally depends on three main factors:

1. The types of dissimilar metals in the system.
2. The temperatures encountered by the solution.
3. The number of hours per day the fluid is circulated at the above temperatures.

OPTI TEMP, INC. can recommend a schedule for your system.

### HOW AND WHEN DO I CHECK THE OPTISHIELD® Premix SOLUTION?

During the first 4 weeks it is best to check the system weekly, if not more often, for CLARITY. This can be done by taking a small sample of the fluid and holding it up to the light to make sure there are no precipitates (solids) in the solution. If any precipitates (or a cloudy solution) are found, the solution should be drained and a new Premix installed. The freeze protection value can be confirmed by using a hand held refractometer.

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