



# Technical Data Sheet

50 Cambridge Drive, Monroe CT 06468 USA  
+1 203.590.2000 | +1 800.332.AXEL  
www.axelplastics.com

## RO-59 TM-RC

### Product Description

The RO-59 TM-RC chemical composition of the outer surface of the coating ensures high quality release properties. The chemical bonding of the release coating to the surface of the substrate ensures a high number of releases for each coating application.

### Use:

Deposit thin and dry lubricant coatings on metallic and non-metallic surfaces. These coatings chemically bond to the substrate either at ambient or slightly elevated temperatures and are functional from well below 32°F to 550°F and higher.

### Composition:

RO-59 products are environmentally safe. They are water based with no VOC's. Also, they are non-flammable, do not affect the ozone layer and do not contribute to the greenhouse effect.

### Handling:

Please be sure to read the SDS and follow all precautions including appropriate PPE necessary to handle this product safely. Keep tightly sealed while not in use. Mix well before use, and verify the material is homogenous.

Avoid freezing the product and make sure the material is at ambient temperature prior to use.

### Instructions for Use:

#### Dilution:

Dilute 1 gallon of RO59 concentrate with 3 gallons of reverse osmosis (RO), distilled, or deionized (DI) water. Do not use softened water.

#### Cleaning:

A clean and dry surface is necessary to ensure proper bonding and functionality of the RO-59 coating. A clean metallic surface and completely free of organic contamination is indicated by complete and uniform wetting of the surface by water with no dry spots and no beading or streaking by the water.

#### Application:

By dipping, spraying, wipe-on...etc. Whatever the method, enough RO-59 should be applied to ensure the complete and uniform wetting of the substrate with no dry spot formation.

Air dry (minutes) after application is necessary to effect proper cosmetic appearance and bonding. Proper bonding of the coating is ensured by heating the sample to 350°F to 400°F for 15 minutes.

Cosmetically acceptable coatings are more likely to form by allowing the application of RC to air dry before heating the Coating. A second coating thickness to improve wear resistance and possibly to improve cosmetics is done by application + quick air dry (1 to 2 minutes) for the first coating followed by reapplying +quick air dry for the second coat + final 350°F to 400°F heating.

Test the RO-59 coated surface for lubricity by rubbing with a paper towel. A smooth feel indicates the presence of a low friction coating.

### FEATURES:

Water based	No VOC
Nonflammable	Easy Application