



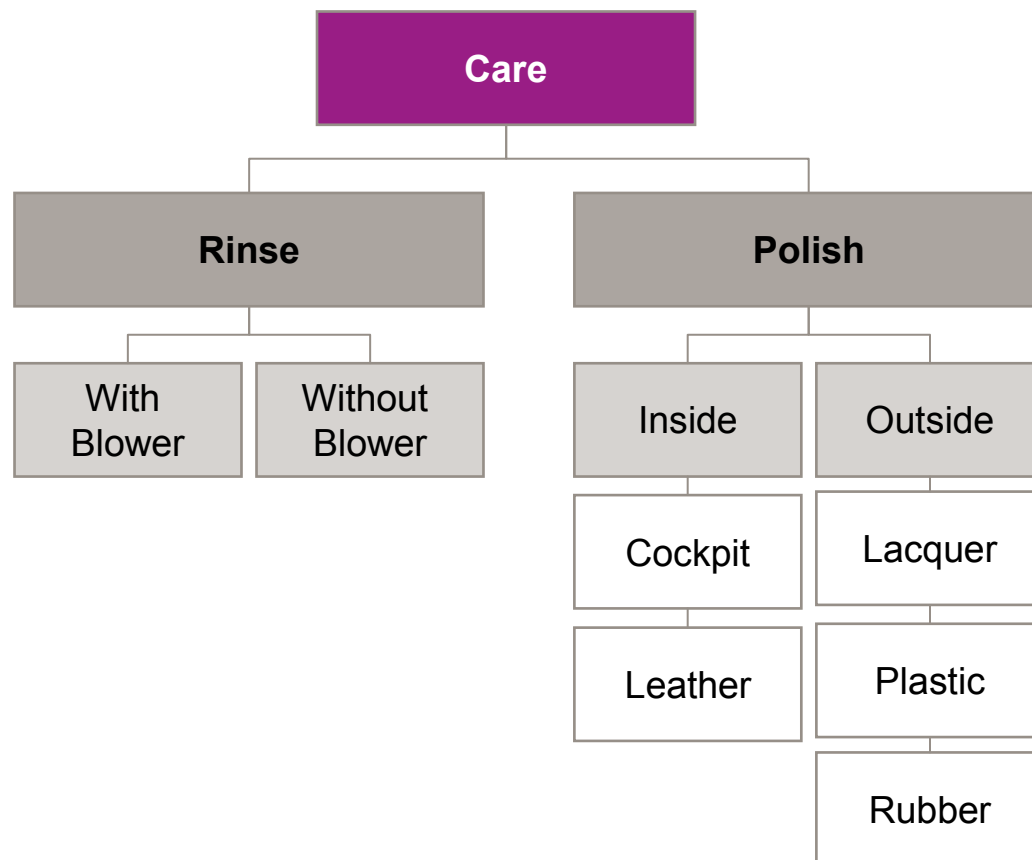
## Caring Additives Around the Car

Consumer Specialties - Household Care  
January 2012



**EVONIK**  
INDUSTRIES

# Our Product Portfolio Provides Caring Additives for:



# Rinse - Blower Use Formulation Needs



Only a micro emulsion guarantees spot-free gloss.  
Micro emulsions are made of:

<b>Quaternaries</b> (emulsifiers)	CARSPRAY™ 90 REWOQUAT® CR 3099 REWOQUAT® W 3690-90
<b>Non-polar oils</b> (hydrophobic spreading aid)	REWOCARE® DOC (Light oil) TEGOSOFT® OP (Heavy oil) TEGO® Polish Additiv 5 (Spreading aid)
<b>Formulation aids</b> (Required)	REWOPAL® MPG 40 (Co-emulsifier) TEGOTENS® SD 100 (Co-emulsifier)
<b>Effect additives</b>	TEGOPREN® 6922 (Gloss enhancer) TEGOPREN® 6923 (Gloss enhancer, high performance)

# Rinse - Blower Use Formulation Requirements



Additional formulation requirements:

- Clear dilution and stable during use
- Cold storage stability of concentrate and high dilutions
- Stable and processable under various water hardness conditions
- Formation of large water droplets on the car for easy removal
- Clearly dilutable from 1:500 to 1:1000 (ready-to-use dilutions)



# Carspray™ 90

## Cost Effective Formulation



**CARSPRAY® 90** is especially suitable for car wash stations where optimal cost performance is required

Car Rinse	%
<b>CARSPRAY® 90</b>	12.0
<b>REWOCARE® DOC</b>	5.0
<b>TEGO® Polish Additiv 5</b>	2.0
<b>REWOPOL® MPG 40</b>	6.0
Dipropylenglycol-n- butylether	8.0
<b>TEGOGREN® 6922</b>	0.8
Water	65.7
Acetic acid 60 %	0.5

# Rinse - Blower Use Formulation



**REWOQUAT® CR 3099** is especially suitable for tunnel washing stations where fast water elimination is essential

Car Rinse	%
<b>REWOQUAT® CR 3099</b>	10.0
<b>REWOCARE® DOC</b>	6.0
<b>TEGO® Polish Additiv 5</b>	5.0
<b>REWOPOL® MPG 40</b>	6.2
Dipropylenglycol-n- butylether	8.6
<b>TEGOPREN® 6923</b>	0.4
Water	63.8





**Rinse – Non Blower Use  
Clean Park**

# Rinse – Non Blower Use Formulation Needs



Self drying formulations are made of:

## Quaternaries

<b>REWOPOL® CC 40 B</b>	(2-in-1 blend)
<b>TEGOPREN® 6922</b>	(Cationic silicone)
<b>TEGOPREN® 6923</b>	(Cationic silicone)

## Formulation Aids

<b>TEGOTENS® DO</b>	(Spreading aid)
<b>REWOMINOX® B 204</b>	(Improved rinse)
<b>REWOERIC® AM KSF 40</b>	(Improved rinse)

## Effect Additives

<b>REWOCARE® 755</b>	(Gloss enhancer)
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# Rinse – Non Blower Use Formulation



Jetwash Spraywax	%
TEGOTENS® DO	2.0
TEGOPREN® 6922	1.5
Water (demin.)	95.9
Preservative	0.6

**Manufacturing:**

Mix all ingredients while stirring

# Caring Additive for Interior Cockpit – General Needs



**TEGO® Polish Additiv E 3982**

**TEGO® Polish Additiv WE 50**

- Colour refreshment
- Suitable gloss
- Antistatic effect
- Good affinity to hard surfaces
- Easy to use
- Water dilutable

# Caring Additive for Interior Cockpit - For your Individual Needs



## **TEGO® Polish Additiv E 3982**

- High gloss
- Long lasting protective film

## **TEGO® Polish Additiv WE 50**

- Non-glossy care agent
- Anti-dust effect
- Surface refreshment - looks like new



# Caring Additive for Interior Formulation - For Your Individual Needs



Cockpit Spray	%
TEGO® Polish Additiv WE 50	10.0
TEGO® Polish Additiv A 10	up to 5.0
Water, deionized	84.8
Fragrance	0.1
Preservative	0.1

Gloss can be adjusted by concentration

## Manufacturing:

Blend all ingredients together in the given order

# Caring Additive for Interior Leather Care



Silicone derivatives offer various effects on leather

**Soft surface touch**

**REWOCARE® DOC** (Light oil)  
**TEGOSOFT® OP** (Heavy oil)

**Gloss improvement,  
Anti-static effect**

**TEGO® Polish Additiv Q 70**

**Water repellency**

**TEGO® Polish Additiv E 3400/5** (Emulsion)  
**TEGO® Polish Additiv C 3191** (Active)

**Enhanced suppleness**

**TEGO® Polish Additiv WE 50** (Antistatic)  
**TEGOPREN® 6814** (Flexibility)



# Caring Additive for Interior Gloss Additives



**TEGO® Polish Additiv ASL 60 (High gloss)**

**TEGO® Polish Additiv A 10 (high gloss, biodegradable)**

- Enhanced gloss
- Enhanced suppleness
- Easy to use
- Water dilutable
- Good affinity to hard surfaces

# Caring Additive for Interior Leather Care Formulation



**TEGOPREN® 7008** and **TEGOPREN® 6814** provide good water repellency and care effect

Care Gel for smooth leather W/O Emulsion	%
<b>TEGOPREN® 7008</b>	1.6
<b>REWOCARE® DOC</b>	3.6
<b>TEGOPREN® 6814</b>	1.0
<b>TEGOSOFT® OP</b>	2.0
Silicone Oil (medium viscosity)	2.8
Water (demin.)	89.0
Fragrance, dye, preservative	q.s.

## Manufacturing:

Dispersion disc at high revolution

# Caring Additives for Interior – Air Refresher



**TEGO® Sorb Conc. 50** removes unpleasant odours like:

- Smoke
- Sweat odour
- Garbage smell
- Pets smell
- Moulds and bacteria
- Bacteria smell from air condition system



# Caring Additive for Interior – Air Refresher



Aqueous Odour Absorber – Classic Formulation	%
Water, demin	89.3
Sodium salt of DTPMP, 32%	2.5
Triethanol amine	0.6
<b>REWOPOL® SB FA 30</b>	6.0
<b>TEGO® Sorb Conc. 50</b>	1.0
Lactic acid	0.6
Preservative / perfume	q.s.

## Manufacturing:

Add water then add all ingredients in the order listed with continuous mixing.

# Caring Additive for Exterior Car Body – General Needs



Wax containing emulsions for lacquer protection and long lasting gloss

- Easy to apply and polish
- Evenly spreading of the transparent wax film
- Good affinity to hard surfaces
- Required gloss level
- Colour refreshment
- Scratch removal





# Car Body - Silicone Additives for Wax Emulsions



## **TEGOPREN® 6814**

- Easier polishing
- Spreading of wax film

## **TEGOPREN® 7008**

- W/O-emulsifier
- Easier polishing
- Spreading of wax film

## **TEGOPREN® 6923**

- improves gloss and durability
- antistatic properties

# Car Body - Silicone Additives for Wax Emulsions



**TEGO® Polish Additiv C 3191** (Active protectant)

**TEGO® Polish Additiv E 3400/5** (Ready to use emulsion)

- Water repellent
- Detergent resistant
- Long lasting protection

**REWOCARE® UV 50**

- cationic UV absorber
- premium protection at low dosage
- suitable for car shampoos and rinses
- suitable for car polishes
- easy to formulate

# Car Body Formulation



Car Polish (Solvent-Free)	%
Licowachs KLE (wax-emulsion)	4.0
Water, hot	29.0
Polymer thickener	0.2
Abrasive	5.0
<b>TEGO® Polish Additiv E 3400/5</b>	7.6
<b>TEGO® Polish Additiv ASL 60</b>	5.0
Water (demin.)	49.2

## Manufacturing:

Combine 1 and 2. Mix 3 and 4 first, then add to (1 + 2).  
Add 5 – 7 while stirring.

# Caring Additive for Exterior Plastic – General Use



## **TEGO® Polish Additiv E 3982**

- High gloss
- Colour refreshment
- Long lasting protective film
- Water dilutable
- Easy to use
- Good affinity to hard surfaces
- Antistatic effect

# Caring Additive for Interior Gloss Additives



**TEGO® Polish Additiv ASL 60 (High gloss)**

**TEGO® Polish Additiv A 10 (high gloss, biodegradable)**

- Enhanced gloss
- Enhanced suppleness
- Easy to use
- Water dilutable
- Good affinity to hard surfaces



# Caring Additive for Exterior Formulation



Car Polish (Solvent-Free)	%
TEGO® Polish Additiv E 3982	25.0
Water (demin.)	74.8
Preservative	0.2

## Manufacturing:

Mix all ingredients in the given order while stirring.

# Caring Additive for Exterior Rubber Care



**TEGO® Polish Additiv WE 50 (Colour refreshing care agent)**  
**TEGO® Polish Additiv ASL 60 (Excellent gloss)**

- Enhanced gloss
- Enhanced suppleness
- Easy to use
- Water dilutable
- Good affinity to hard surfaces



# Caring Additive for Exterior Formulation



Care Agent for Rubber	%
TEGO® Polish Additiv ASL 60	7.0
TEGO® Polish Additiv WE 50	15.0
Water (demin.)	78.0

## Manufacturing:

Mix all ingredients in the given order while stirring.



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