

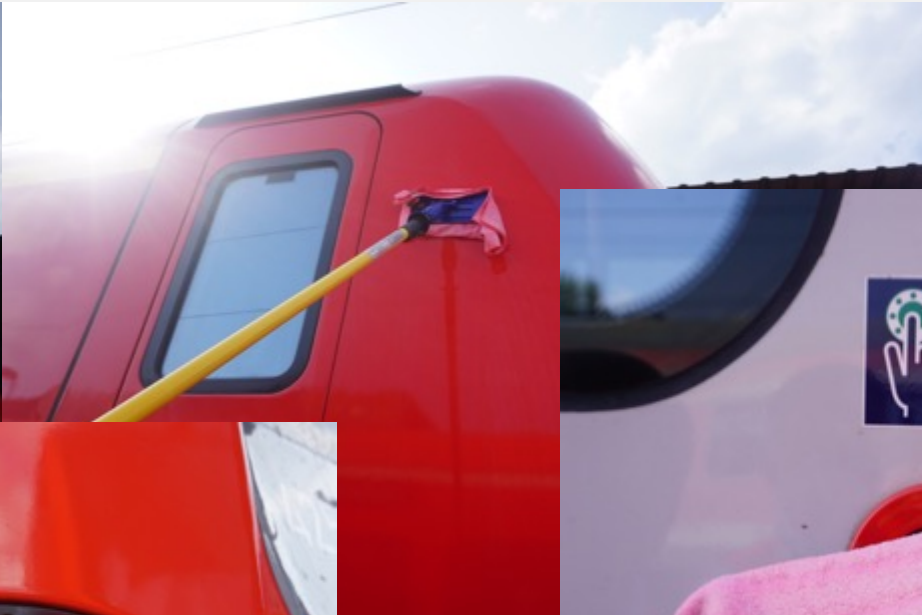
**LECM** (Pty) Ltd  
LED Lighting | Electrical Suppliers | Chemicals | Maintenance

**WATERLESS INTERIOR AND EXTERIOR OF RAILWAY COACHES**

# Exterior cleaning with the easy wipe cleaning system Germany



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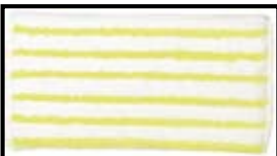


# Working tools for exterior cleaning



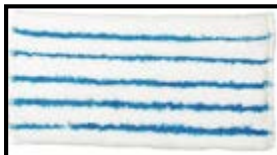
## Pad, white

For moistening the surfaces with water  
For drying the surfaces



## Pad, white-yellow

For applying cleaner easyGleen AR-GR  
For dirt pickup



## Pad, weiß-blau

Zum Auftragen Reiniger easyGleen AR-TOP



## Igelpad

For mechanical removal of stubborn dirt (such as insects)



## Green microfiber cloth

For removing grease with the easyGleen AR-IF cleaner



## Clamp holder

for microfibre cloths and  
hedgehog pad



## Preparationsbox



## Yellow bucket

Transport container for dry pads



## Grey bucket

Disposal container for all used  
cloths and pads



**Heavy Deauty Exterior cleaner**  
for carriage body, glass or Acryl glass  
**pH range 2**



**Waterless Trainwash Removal of all dirt of the surface of the railway coach**  
**pH range 11**



**Top Neutralizer and surface Protection**  
for windows, window frames, mirrors, doors and door opening buttons ect.  
**pH range 6**

The cleaners are delivered as a user solution,  
no re-thinning!

# Preparing the mops and microfiber cloths



Up to 10 mops with the pockets up  
Or  
20 microfiber cloths  
insert into the preparation box.



Close the three tabs on the preparation box and place the box on the front.



Push the opening of the dispersion chamber on the back of the box and fill in the cleaning liquid.  
Then close the opening again and let the box rest in this position for 10 minutes.



The evenly wetted mops can be removed directly with the folding holder as needed. The hands do not come into contact with the soaked mops.



All materials are dropped into a collection container.



Initial situation



After wetting the surface with the cleaner leave up to 3 min. Observe a clear droplet formation.





Greater representation of the droplets.  
The droplets contain the dissolved dirt.







After picking up the droplets with a cloth and then drying the surface with a dry cloth the protection remains on the surface leaving a gloss effect.

## Cleaning car body + glass


<p><b>1. Remove rotary wreath dope</b></p>	<ul style="list-style-type: none"> <li>• If slewing ring lubrication is present, it is wiped off with a microfiber cloth soaked in easyGleen AR-IF</li> </ul>		 <p>easyGleen AR-IF 80ml/Tuch</p>
<p><b>2. Moisten</b></p>	<ul style="list-style-type: none"> <li>• Order water with soaked white pads</li> <li>• Strip wise from bottom to top, visible over-lapping</li> <li>• Surface must be visibly wet (mist-damp)</li> <li>• Change pad on time</li> </ul>		 <p>Water 250 ml / Pad</p>
<p><b>3. Moisten</b></p>	<ul style="list-style-type: none"> <li>• Order easyGleen AR-GR with soaked yellow-white pads</li> <li>• Railway way from bottom to top, visible overlapping</li> <li>• Surface must be visibly wetted (mist-damp)</li> <li>• Change pad on time</li> </ul>		 <p>easyGleen AR-GR 150 ml / Pad</p>




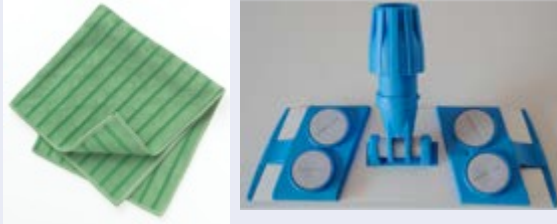

## Cleaning car body + glass

<b>4. Moisten</b>	<ul style="list-style-type: none"><li>• Repeat step 2</li></ul>		 <p>Water 250 ml / Pad</p>
<b>4. Pick up dirt</b>	<ul style="list-style-type: none"><li>• After about 30-60 seconds droplets form, which contain the dissolved dirt.</li><li>• Once the droplets form, the surface can be wiped clean with a yellow-white pad.</li><li>• If the droplets dry up again in the summer, step 2 can be repeated for intermediate moistening.</li></ul>		
<b>5. Finish</b>	<ul style="list-style-type: none"><li>• All windows incl. Window frames, doors, door opening buttons are wiped with easyGleen AR-Top</li></ul>		 <p>easyGleen AR-Top 150 ml/Pad</p>





## Cleaning car body + glass

6. Dry	<ul style="list-style-type: none"><li>• Immediately after application of the easyGleen AR-Top cleaner, the surface is dried with a dry white pad.</li><li>• Be sure to work in a team.</li><li>• If the cleaner dries too quickly at high temperatures in summer, intermediate humidification can be carried out analogously to step 2</li></ul>		
Remarks	<ul style="list-style-type: none"><li>• For the initial cleaning of heavily soiled or heavily absorbent, weathered paints, steps 2-4 may need to be repeated several times.</li><li>• At high temperatures, intermediate humidity's can be made in all phases according to step 2, without affecting the function of the cleaners.</li><li>• To save material, the yellow-white pads from step 3 (easyGleen AR-GR order) can be used for step 4 (dirt pick-up).</li><li>• The order of easyGleen AR-Top on a surface may take place at the earliest 15 minutes after the order of the cleaner easGleen AR-GR.</li></ul>		

## Initial cleaning of the front head

<p><b>1. Moisten</b></p>	<ul style="list-style-type: none"> <li>• Order water with soaked white pads</li> <li>• Strip wise from bottom to top, visible over-lapping</li> <li>• Surface must be visibly wet (mist-damp)</li> <li>• Change pad on time</li> </ul>		 <p>Water 250 ml / Pad</p>
<p><b>2. Moisten</b></p>	<ul style="list-style-type: none"> <li>• Order easyGleen AR-IF with a green microfiber cloth</li> <li>• Requires about 4-6 microfiber cloths per face head</li> <li>• Exposure time depending on the surface temperature 10 - 30 minutes</li> </ul>		 <p>easyGleen AR-IF 80ml/Tuch</p>
<p><b>3. Moisten</b></p>	<ul style="list-style-type: none"> <li>• Order easyGleen AR-GR with soaked yellow-white pads</li> <li>• Railway way from bottom to top, visible overlapping</li> <li>• Surface must be visibly wet (mist-damp)</li> <li>• Change pad on time</li> </ul>		 <p>easyGleen AR-GR 150 ml / Pad</p>

## Initial cleaning of the front head




<p><b>4. Wear out</b></p>	<ul style="list-style-type: none"> <li>• Rub surface with hedgehog pad</li> </ul>		
<p><b>5. Schmutz aufnehmen</b></p>	<ul style="list-style-type: none"> <li>• Collect the dissolved dirt with a yellow-white pad.</li> </ul>		
<p><b>6. Finish</b></p>	<ul style="list-style-type: none"> <li>• The windows including window frames, doors and mirrors are wiped with easyGleen AR-Top</li> </ul>		 <p>easyGleen AR-Top 150 ml/Pad</p>
<p><b>7. Dry</b></p>	<ul style="list-style-type: none"> <li>• Immediately after application of the easyGleen AR-Top cleaner, the surface is dried with a dry white pad.</li> <li>• Be sure to work in a team.</li> <li>• If the cleaner dries too quickly at high temperatures in summer, intermediate humidification can be carried out analogously to step 1</li> </ul>		

## Initial cleaning of the front head





### Remarks

- At high temperatures in summer, perform steps 3-5 in sections one at a time.
- At high temperatures, intermediate humidification can be carried out in step 1, without affecting the function of the cleaners.
- To save material, the yellow-white pads from step 3 (order easyGleen AR-GR) can be used for step 5 (dirt pick-up).
- The order of easyGleen AR-Top on a surface may take place at the earliest 15 minutes after the order of the cleaner easGleen AR-GR.

## Maintenance cleaning forehead head

<p><b>1. Remove rotary wreath dope</b></p>	<ul style="list-style-type: none"> <li>• If Drehkranzschmiere available</li> <li>• Wipe off the turntable grease with a microfiber cloth soaked in easyGleen AR-IF</li> </ul>		 <p>easyGleen AR-IF 80ml/Tuch</p>
<p><b>2. Moisten</b></p>	<ul style="list-style-type: none"> <li>• Order water with soaked white pads</li> <li>• Strip wise from bottom to top, visible over-lapping</li> <li>• Surface must be visibly wet (mist-damp)</li> <li>• Change pad on time</li> </ul>		 <p>Water 250 ml / Pad</p>
<p><b>3. Moisten</b></p>	<ul style="list-style-type: none"> <li>• Order easyGleen AR-GR with soaked yellow-white pads</li> <li>• Railway way from bottom to top, visible overlapping</li> <li>• Surface must be visibly wet (mist-damp)</li> <li>• Change pad on time</li> </ul>		 <p>easyGleen AR-GR 150 ml / Pad</p>

## Maintenance cleaning forehead head

<b>4. Moisten</b>	<ul style="list-style-type: none"> <li>• After a waiting period of 3-5 minutes, repeat step 2</li> </ul>		 Water 250 ml / Pad
<b>5. Wear out</b>	<ul style="list-style-type: none"> <li>• Rub surface with hedgehog pad</li> </ul>		
<b>6. Pick up dirt</b>	<ul style="list-style-type: none"> <li>• Collect the dissolved dirt with a yellow-white pad.</li> </ul>		
<b>7. Finish</b>	<ul style="list-style-type: none"> <li>• The windows including window frames, doors and mirrors are wiped with easyGleen AR-Top</li> </ul>		 easyGleen AR-Top 150 ml/Pad

## Maintenance cleaning forehead head

### 8. Dry

- immediately after application of the easyGleen AR-Top cleaner, the surface is dried with a dry white pad.
- Be sure to work in a team.
- If the cleaner dries too quickly at high temperatures in summer, intermediate humidification can be carried out analogously to step 2



### Remarks

- At high temperatures in summer, perform steps 4-6 in sections one after the other.
- At high temperatures, intermediate humidity's can be made in all phases according to step 2, without affecting the function of the cleaners.
- To save material, the yellow-white pads from step 3 (order easyGleen AR-GR) can be used for step 6 (dirt pickup).
- The order of easyGleen AR-Top on a surface may take place at the earliest 15 minutes after the order of the cleaner easGleen AR-GR.



1. There is no wastewater that has to be disposed of with great effort.
2. The cleaning is not tied to the presence of a car wash.
3. It can be cleaned at any time during the shutdown of the trains.
4. The pads and microfiber cloths are always saturated with the same amount of detergent in a constant concentration. No dripping
5. No build-up of cleaning substances on the substrates.
6. Significant extension of cleaning intervals.



Many Thanks  
for your attention!

Creator: Leandrè Crous Version 6 9.3.2018