

**Coated Surfaces for a Premium
Reputation of Aluminium –
Superior Aesthetics and Long
Lasting Attractiveness Paired
with Sustainability**

Philipp Mader (M.A.)



What do you desire when you order a coating?

Impressive Surface

Lasting Attractiveness

Corrosion Protection

... to put it in other words ...

THIS





... and NOT THIS





Some sign of a company I made
unrecognisable using my
non-existent picture editing skills.

*Just imagine it is the entrance sign
of your company ...*

We make sure it doesn't come to that!





Quality Committee Aluminium



Quality Committee Steel

The Quality Committees work on the Quality Regulations and on research projects.

It is voted on all changes of the Quality Regulations at the General Assembly.



Board

- = Representatives from the membership
- = Chairmen of the Quality Committees



Good pretreatment ensures ...



Good pretreatment ensures ...


... **ideal adhesion** of the powder or liquid coating to the specific substrate.



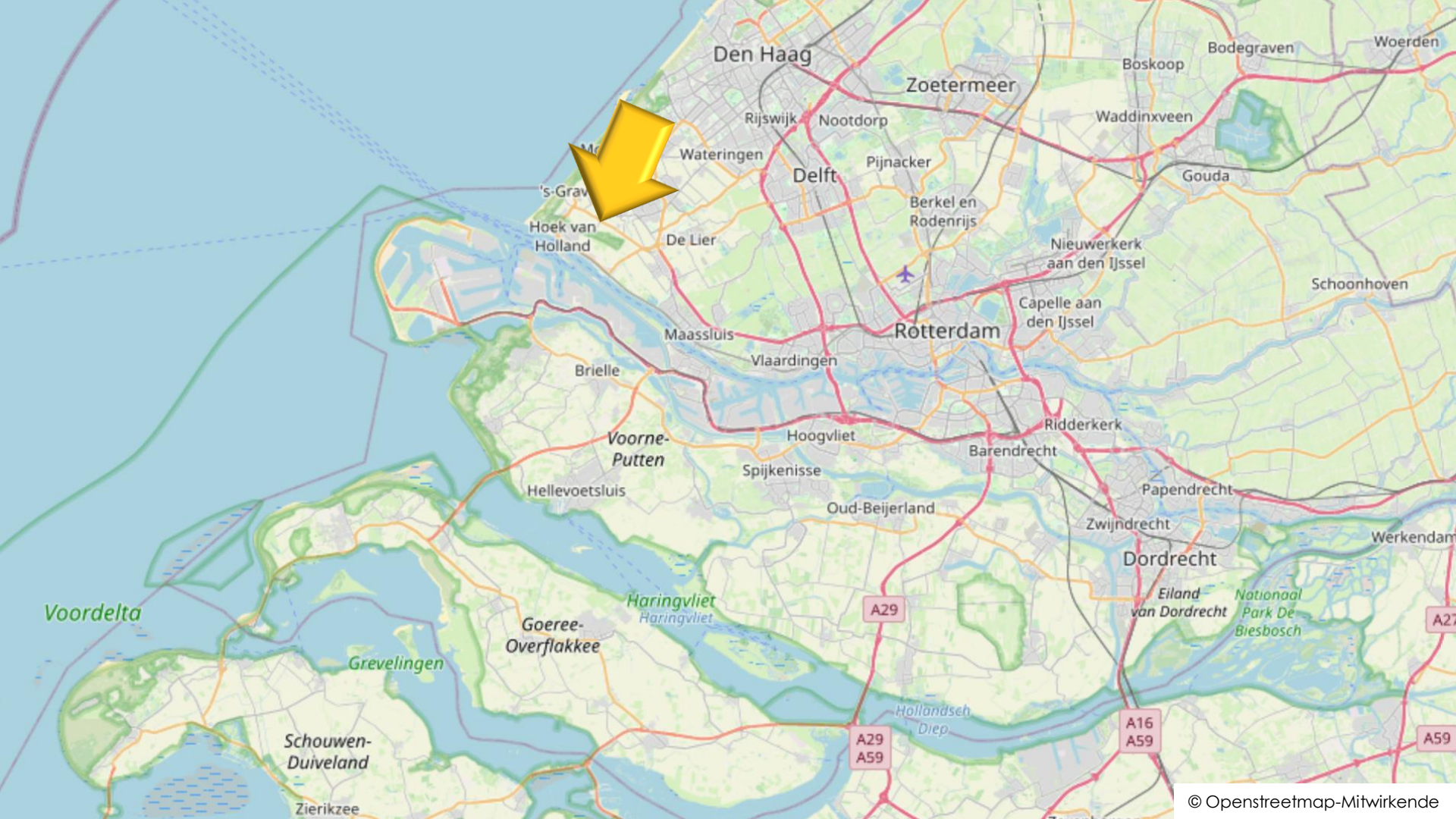
Good pretreatment ensures ...

... **ideal adhesion** of the powder or liquid coating to the specific substrate.



The image shows an outdoor weathering test facility. In the foreground, there are several metal racks holding various samples, including what appear to be solar panels and other flat surfaces. The racks are arranged in rows, and the samples are tilted at an angle. In the background, there is a body of water, a fence, and a tall, thin tree. The sky is blue with some clouds. A yellow box highlights the text in the bottom left corner.

**Outdoor weathering in Hoek van Holland
Combination of marine & industrial climate
Unique in the world: 3, 5 & 10 year outdoor weathering for
approval of pretreatment chemicals**



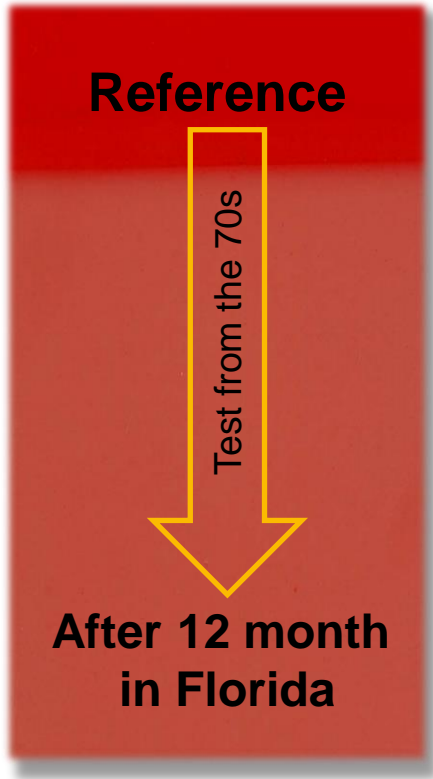
Main Topic of Coating Materials ...

... **UV-Resistance**





Source: Q-Lab Corporation
Q-Lab.com





Approved
Coating Material
Aluminium
Florida 5



Approved
Coating Material
Aluminium
Florida 3



Approved
Coating Material
Aluminium
Florida 1

Reference	Residual Gloss	Targeted Ageing Period
RAL 3011	88 %	5 Years (1260 MJ/m ²)
RAL 5003	90 %	3 Years (840 MJ/m ²)
RAL 5022	50 %	1 Year (300 MJ/m ²)

Fact check: Only if the tested coating powder or liquid paint shows a residual gloss of $\geq 50\%$ and colour gaps within our specified tolerances after the targeted ageing period, it receives the GSB Quality Seal.

Unannounced audits **twice a year**
by independent testing institutes



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Source: GSB Internationale e.V.
ENVIRAL Oberflächenveredelung GmbH
ILF Magdeburg GmbH

Different Quality Seals depending on ...

... **quality level of the pretreatment**

... **laboratory equipment**

... **Factory Production Control (FPC)**



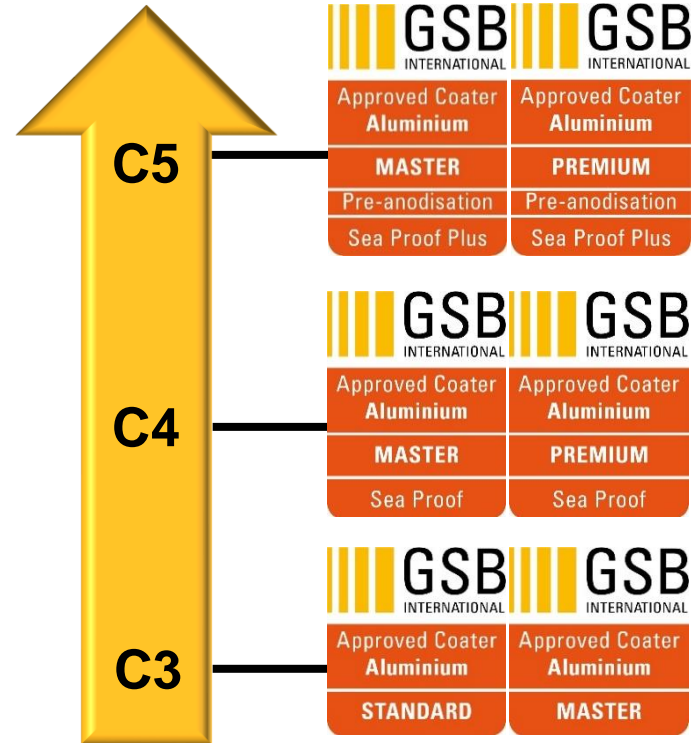
Source: GSB International e.V.
EKO-Dekor Oberflächenveredelungs GmbH

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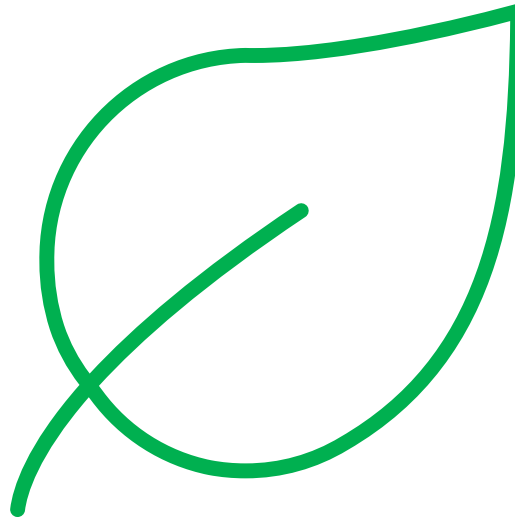


Designations based on DIN EN ISO 9223; see EN 1999-1-1 and EN 1090-3 for corrosion behavior and corrosion protection for aluminium in construction.

Quality of the entire process chain is secured.



How does that help with sustainability?



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How does that help with sustainability?



QUALITY!



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How does that help with sustainability?



QUALITY!

Resources that would have to be used for repairing quality deficiencies **can be used more effectively** elsewhere.

- Typically, the **coating** represents a **fraction of the costs of a facade**.
- In the **worst case**, quality defects can lead to the **entire facade having to be dismantled and recoated**.


Quality of the entire process chain is secured.



How does that help with sustainability?



QUALITY!



Longer durability of coatings contributes to the **sustainable use** of metals in windows and facades.

- Before the material has to be recycled, it can take decades.

Quality of the entire process chain is secured.



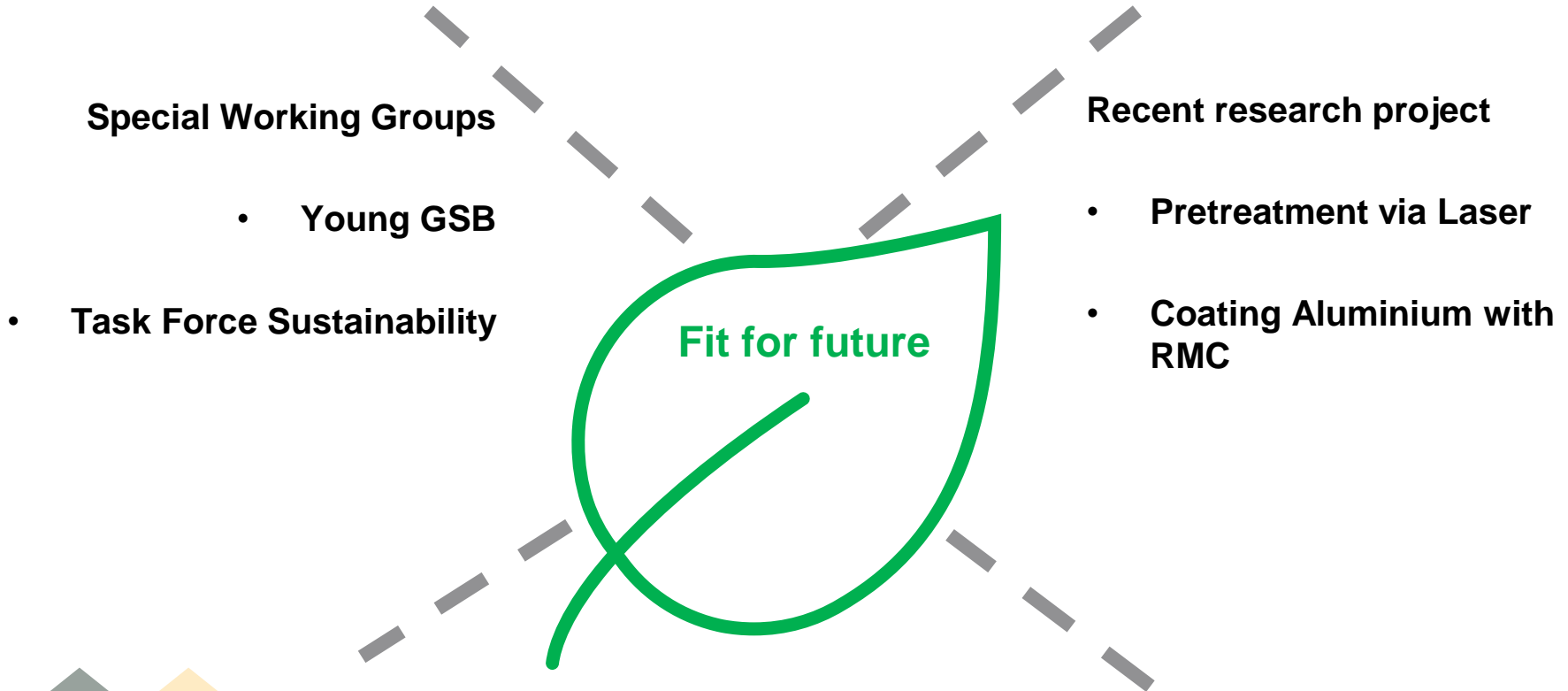
How does that help with sustainability?

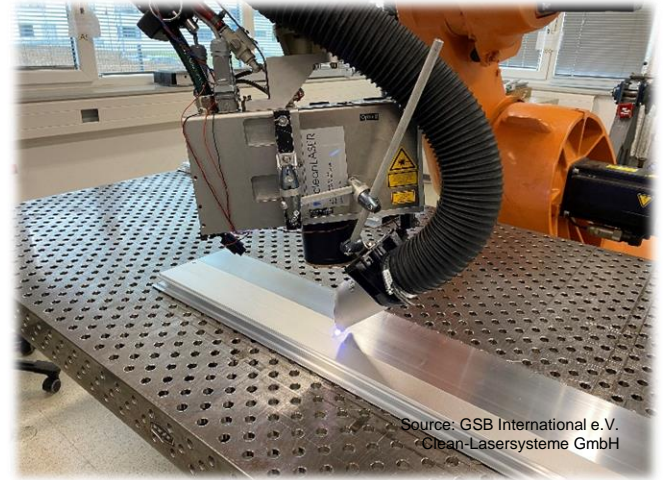
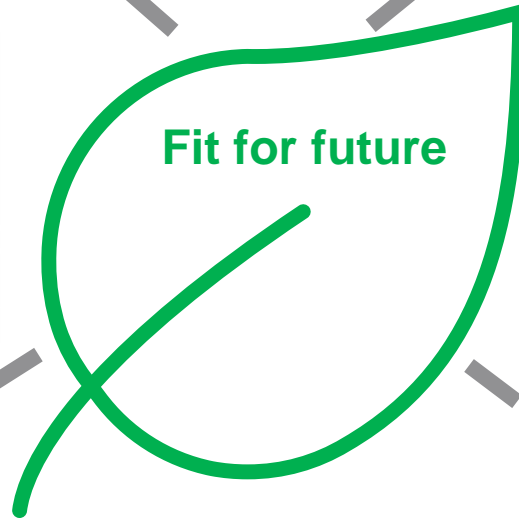


QUALITY!

Energy-efficient manufacturing processes and high quality contribute to maximizing profits.

- At the end of the coating process, the **coating is cured**.
- GSB coaters **must measure and document the oven temperature**. In this way, they can operate at the lower limit of the paint manufacturer's temperature specifications and thus save energy.





VISIT US!

BOOTH 7AA07

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