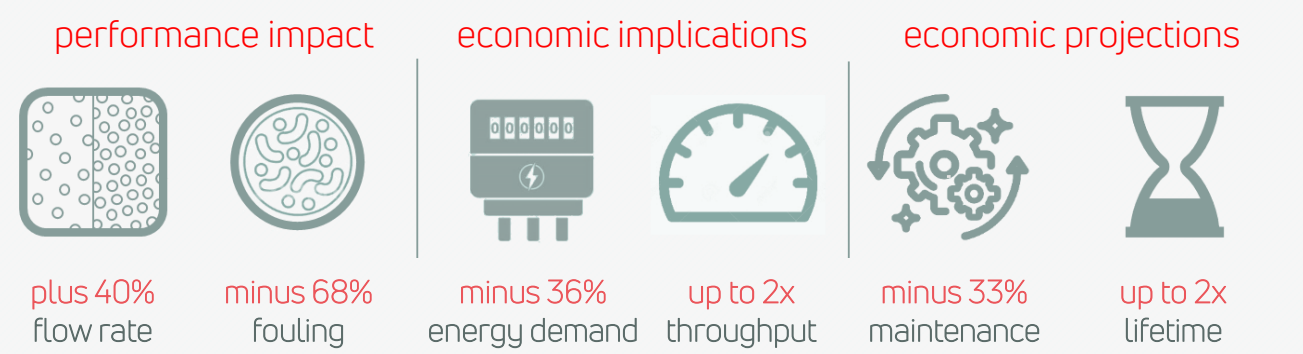


Fight Fouling with High-Performance Membrane Coatings used all across water purification and fluid separation industry

qCoat GmbH offers hydrophilic performance coatings applied on standard polymer membranes such as PES, PVDF, etc., targeted at **membrane manufacturers and filter module assemblers**.

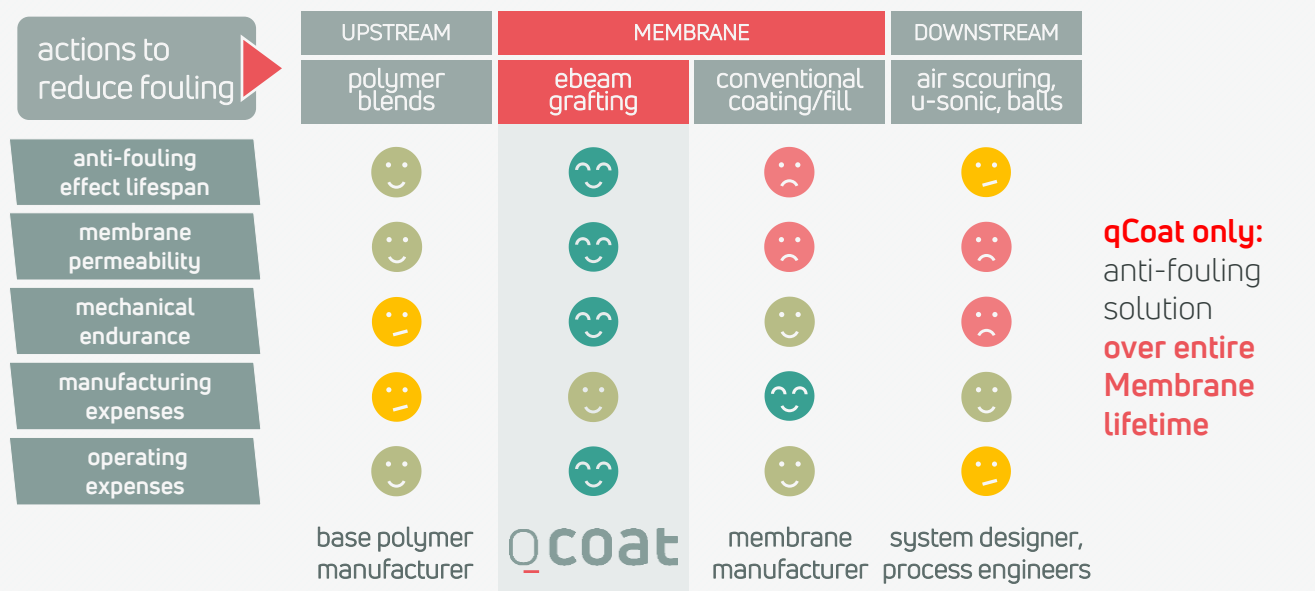
Gain a true performance based technical advantage in the market by supply enhanced filter technology, reducing costs, increasing throughput and extending total membrane lifetime.



Hy2F Coatings Add Value for Your Customer's Satisfaction

Hy2F coatings simplify life for filter operators, boosting **filtration efficiency** and retaining process control. Engineers favour **increased throughput** and accountants return for the **lower total cost of ownership**.

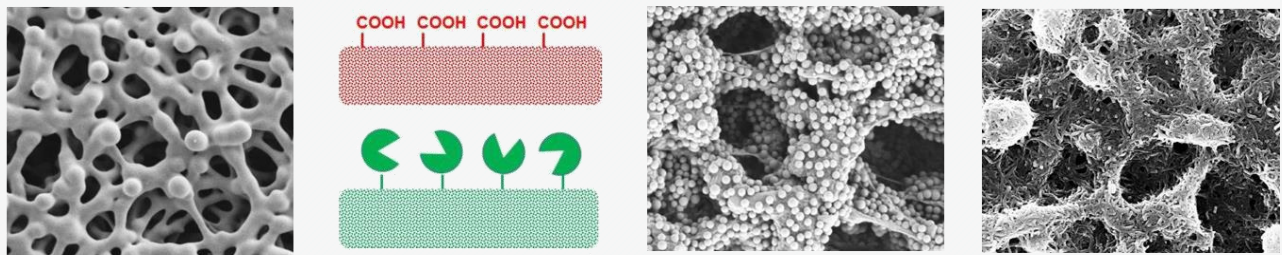
qCoat's Solution to Membrane Fouling



Grafting of Functional Molecules

to porous membranes means the formation of **permanent atomic bonds of performance boosting molecules** on the polymer's surface - this relates to the visible areas as well as deep inside the pore's inner surfaces.

Our Proprietary Coating Technology - How we do it?



- select functional molecules depending on end-user's needs and application specifics
- membrane dip-coated in functional aqueous solution
- linear curtain electron beam, covalent immobilization of functional molecules
- membranes retain their distinct separation characteristics , i.e. MWCO

Our Coating Capabilities

are based on a 2nd generation **roll-to-roll grafting platform**, which unites the technology of 3 patents and more than 10 years of intensive R&D at Leibniz-Institute of Surface Engineering. Our platform coats virgin **flat sheet and hollow fibre** membranes from the **MF, UF and NF filtration** spectrum. All tailored towards product qualification according to your filtration needs.

Further developments in Membrane Functionalities

grafted to membrane	product function	application
amphiphilic molecules (Hy2F)	extreme hydrophilic membrane	high permeability, lowest fouling
oxidase enzyme	bio-catalytic membrane reactor	decompose micro pollutants, pharmaceuticals, hormones
digestive enzymes	self-cleaning membranes	"filtration for amateurs"
antibacterial peptides	bacteria-killing membranes	advanced sanitation
photo-sensitizers	photo-toxic membranes against algae, bacteria, fungi, viruses	advanced sanitation
carbon nanotubes	catalyst carrier platforms	membrane reactors

Book an Expert Consultation with qCoat Today

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