

# Anti-viral, self-sanitizing coatings

## Collaborate with RISE to assure high quality and trusted products.

The current COVID-19 pandemic is devastating the world with catastrophic human, social and economic effects everywhere. One of the risks of the spread of COVID-19 comes from touching surfaces in public places such as handrails, handlebars, escalators handrails. To tackle this problem, several new surface coatings with antiviral properties are being developed and tested at various companies and academic institutes. RISE, with expertise in surface chemistry is uniquely placed to provide research and development support to this endeavour.



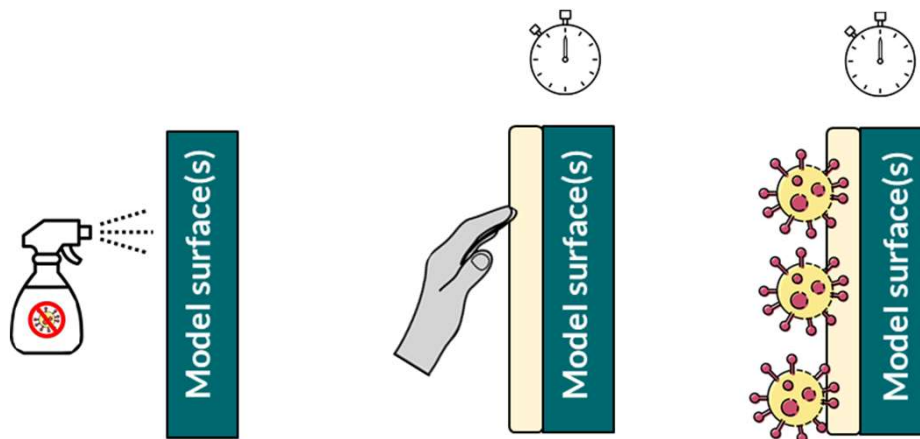
### Why RISE?

RISE Research Institutes of Sweden, is the premier Swedish research institute tasked with supporting Swedish and international enterprises with their research, development and innovation needs. RISE can be your external partner to verify your innovative products to secure high quality. Fulfilling its role of R&D support in quickly bringing technical solutions to the market, RISE can offer the following.

- **Coating properties – Basic**
- **Coating properties – Advanced**

## Coating properties – Basic

- Wear-off time
- Surface analysis of actives during wear
- Friction and its changes during wear
- Anti-pathogenic effects during wear (selected pathogens)



## Coating properties – Advanced

- Coating properties release studies: including encapsulation of actives/anti-bacterial chemicals, controlled release coatings, measure release of actives into its environment etc
- Tailor-made toxicology support, anti-biotic resistance evaluation
- Tactile perception evaluation of coatings, e.g. tactile feel of perceived smoothness, stickiness, pleasantness, quality, luxury feel, preferences etc
- Support with new REACH regulation compliance, e.g. nanomaterials characterization

## Related support functions of RISE

- Setting up multi-partner collaboration for specialized tests, full value chain collaborations, etc
- Setting up real-time pilot studies with selected need-owners and partners
- Support with formulation development (e.g. slow or fast release), surface treatments, film adhesion, etc
- Support with development and optimization of chemical processes, process development from laboratory up to pilot scale
- Substitution of key ingredients, e.g. green solvents, bio-based binders

**Use RISE expertise in surface chemistry to provide research and development support for new antiviral surface coatings to tackle the problem of virus spreading through touch.**