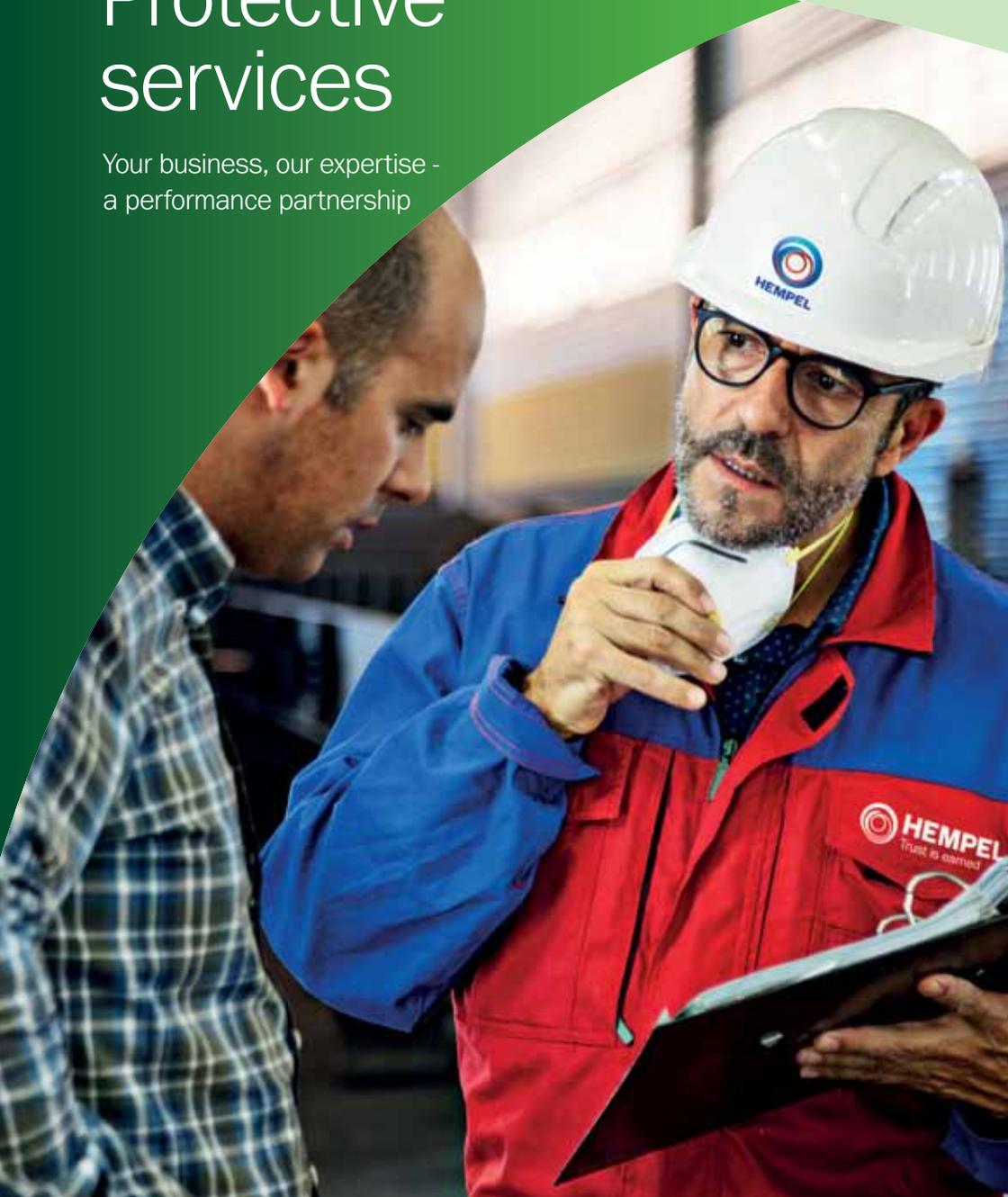


Protective services

Your business, our expertise -
a performance partnership



Why use Hempel services?

See an increase in your overall return on investment

- Extend asset uptime
- Complete projects on time and on budget

Ensure maximum coating performance

- Benefit from the most efficient application procedures
- Free up your resources so you can focus on your core business

Protecting your assets has never mattered more

Our deep product knowledge, field expertise, global technical support network and desire to make our products perform to their best means we can provide quick, fit for purpose solutions that you can trust.

From wind turbines and oil rigs to bridges and port equipment, Hempel coatings are trusted to protect valuable equipment and structures from corrosion, damage and wear.

In an increasingly competitive world, it's more important than ever to maximise the effectiveness and durability of every protective coating.

That's the power of Hempel services.

Hempel Services put our unique coating expertise at the heart of the coating process, with coating advisors supporting and managing coating selection, application and maintenance in the most cost-efficient way. The result: reduced application costs, extended maintenance intervals and maximum uptime for every asset.

It's why we're the partner of choice for customers in over 80 countries worldwide.

Efficiency, powered by Hempel services

Whether it's a high-tech piece of machinery or a vital structure, we know investment in your assets is significant. That's why we've designed our protective services to ensure you can keep your asset working efficiently, and in prime, condition throughout its lifetime. Our intensive production line survey helps identify strengths and weaknesses, so that problems can be headed off and production performance continues, as promised.

By having a Hempel expert coating advisor on-site throughout the project, we can help you:

- Reduce application costs
- Reduce lost revenue from asset downtime
- Avoid delays and penalty costs

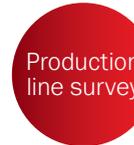
Advisory services



Offers a moderate degree of on-site monitoring and project oversight.



Offers complete coating application oversight and advice during the entire project.

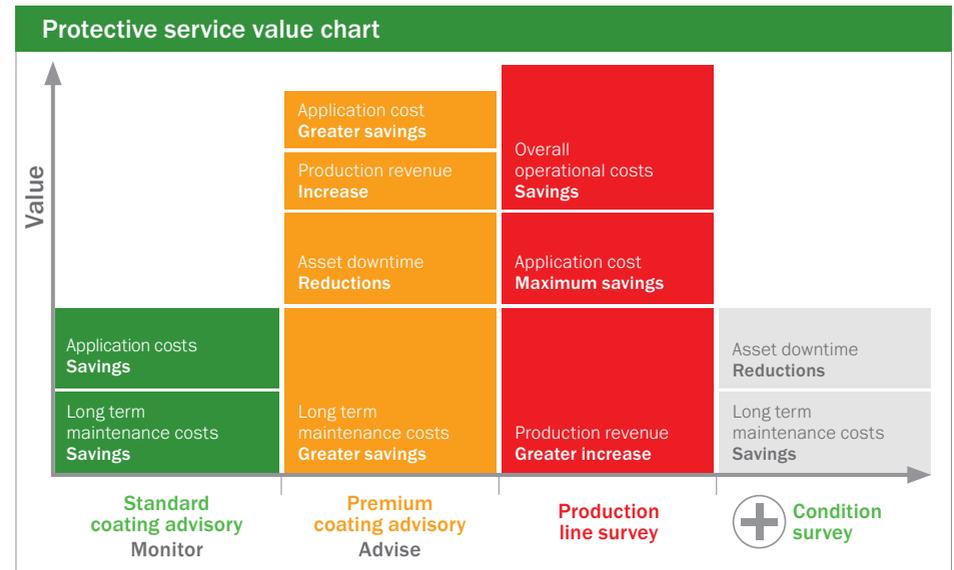


Other services

Provides a detailed overview of your production capabilities.



Our condition survey evaluates the condition of the structure and/or existing coating system.





Reduce total maintenance costs

Value:



Availability:



Reporting:



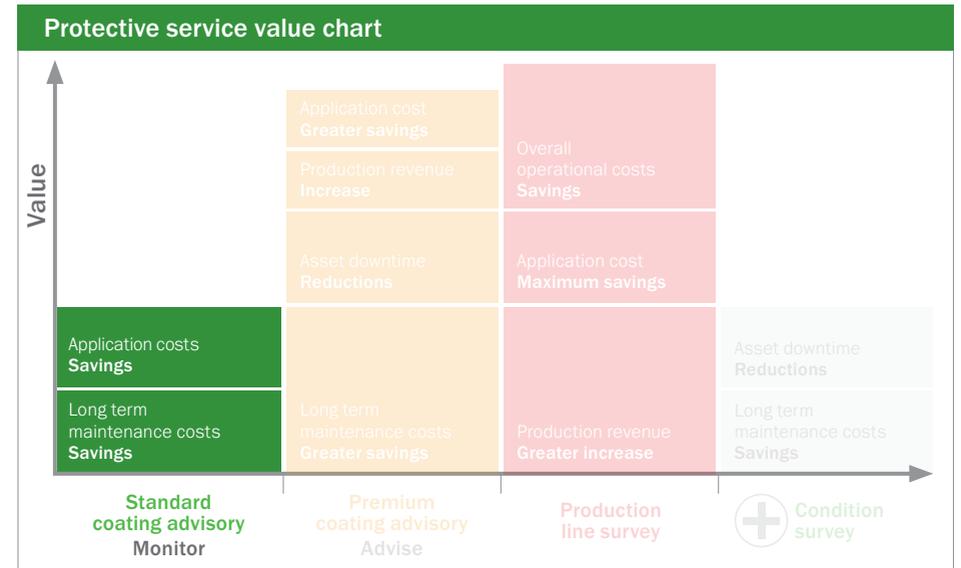
“Quick solution to coatings problem”

European steel construction company

Keeping on top of maintenance costs is a constant challenge for asset owners. By having an expert on site at the beginning of the project, Hempel can help keep maintenance costs within budget. Not getting this right can end up costing time and money on repairs in the long run.

Our standard coating advisory provides a moderate degree of monitoring and project execution oversight. This technical service can reduce long term maintenance cost and time, focusing on essential parts of the main phases.

An expert coating advisor will be on-site at the beginning of the process and will return to inspect the final quality. Progress reports will be issued only when a coating advisor has been on-site. The coating advisor will distribute a final report at the end of the project.





Reduce asset downtime

Value:



Availability:



Reporting:



“Knowledge, experience and prompt response”

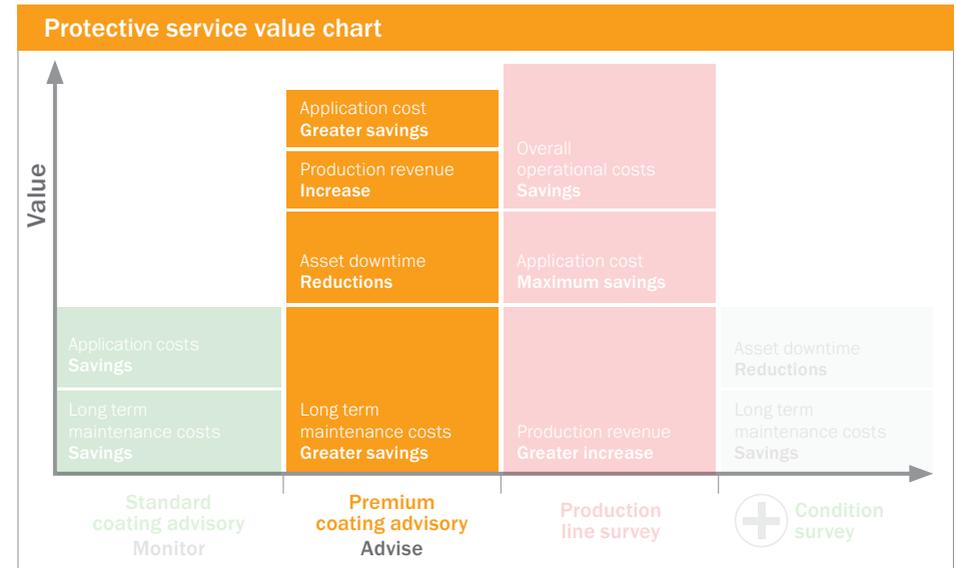
Leading European rail freight operator

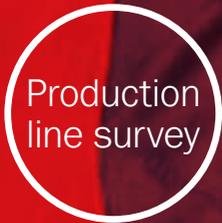
We know that having an asset out of action for longer than necessary costs you money.

By having a Hempel coating advisor on site throughout the project delivering expert control, ongoing advice and effective problem-solving can reduce asset downtime and help optimise the life of the coating.

Our premium coating advisory delivers complete coating application oversight and expert advice during the entire project, with a combination of full time project support and detailed inspection documentation.

Having the latest key information ensures informed decisions can be made throughout the project, from start to finish. Progress reports distributed daily by a coating advisor enable you to track the progress of the project. A final report will also be issued at the end of the project.





Reduce operational costs

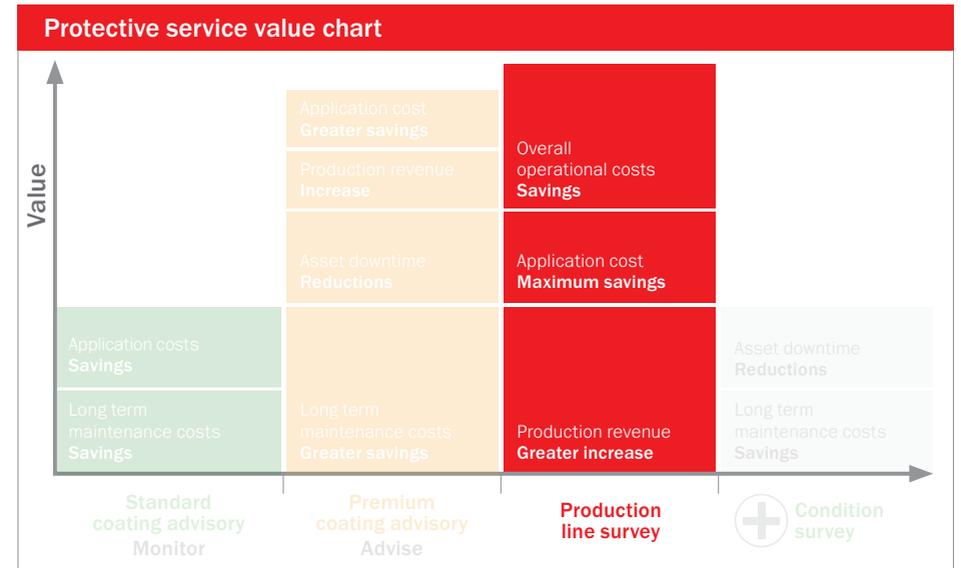
“Expert knowledge of coating material and application equipment. Effective trouble shooting”

North American railcar provider

Hempel knows that to keep your operational costs down every part of your production needs to run as efficiently as possible. That’s why we’ve developed a separate customised service, dedicated to problem solving, reducing process costs and helping you optimise the service life of the coating.

With an expert coating advisor on hand to review your procedures, documentation, specifications, quality control and process flow, we can offer recommendations that can save you money and time in your production.

Our production line survey involves a thorough pre-project review, a site visit followed up by detailed report by our coating advisor with observations and recommended areas for improvement.





Condition survey

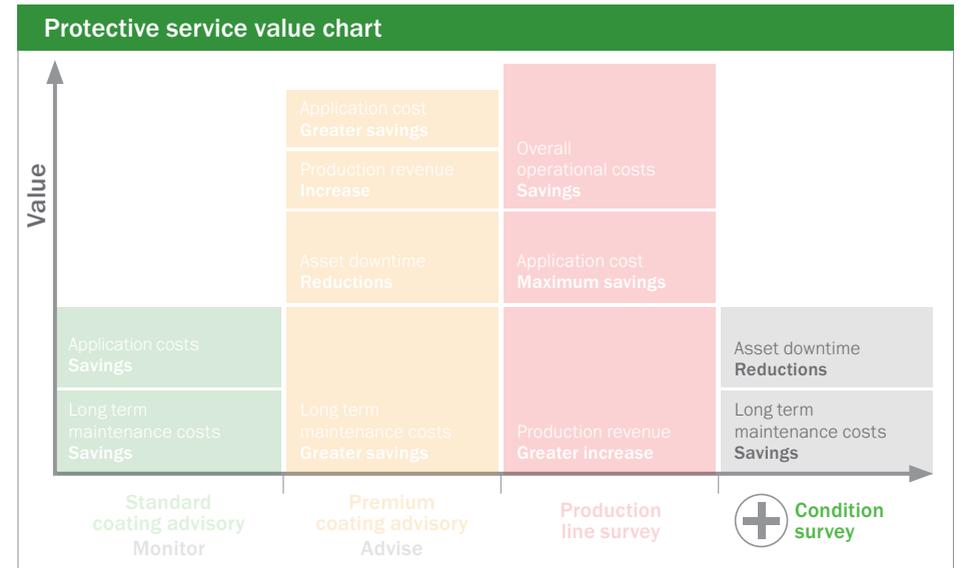
Proven reductions in asset downtime for OEMs

Reduce long-term maintenance costs

Keeping long-term maintenance costs down can be a constant challenge in today's climate. Identifying maintenance issues early on can help prevent bigger problems developing later and keep long-term upkeep costs down.

The condition survey evaluates the condition of the structure and/or the existing coating system. This service can be key to reducing long-term maintenance costs and your down time.

Expert coating advisors use their field expertise and product knowledge to identify causes of possible failure and provide advice on urgent coating related challenges.

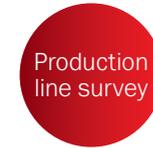


Service comparison

See how each Hempel service compares



Deliverables	Standard coating advisory	Premium coating advisory
Coating advisor (CA) availability		
Coating advisor presence	CA typically present during start up of main phases	Dedicated full time for entire project
Pre-project inspection		
Pre-project briefing		✓
Survey of actual condition of existing coating system	✓	✓
Verification of paint order and specification	✓	✓
Distribution of specification and relevant PDS	✓	✓
Surface preparation inspection		
Equipment inspection		✓
Surface preparation: fresh water cleaning, high pressure fresh water cleaning, mechanical tool cleaning, abrasive blasting	CA typically present during start up of main phases	CA present throughout the process
Surface preparation inspection/final quality check/basic tests	✓	✓
Application inspection		
Paint consumption control		✓
Managing paint stock/rotation/storage condition/shelf life		✓
Microclimate	CA typically present during start up of main phases	CA present throughout the process
Application equipment		✓
Application	CA typically present during start up of main phases	CA present throughout the process
Overcoating intervals	✓	✓
Dry Film Thickness (DFT)	✓	✓
Final inspection		
Check and report general final appearance of coating work	✓	✓
Check and report total DFT	✓	✓
Check time before taking item into use	✓	✓
Reporting		
Progress reports	Only when on-site	Daily
A final report including the progress reports	✓	✓



Condition survey

Pre-project review	Uncoated structures
Review and study of necessary documentation <ul style="list-style-type: none"> • Customer specifications, product data sheets and safety data sheets • Process documentation • Quality control procedure/plan for corrosion protection • Relevant policies 	Visual inspection on the actual surface condition.
Coordinate and obtain approval for relevant steps (interviews, study of documents like work place description, supply documents, etc).	Check and report design considerations/substrates.
Define the scope of the production line survey with customer and define customer expectations, if any.	All inspections and findings to be clearly documented with pictures.
	Document results and recommendations.
Site visit	Coated structures
Interview workforce on site and document the findings.	Visual inspection on the actual condition of the existing coating system, including colour shade of the coating.
Map out the process flow including the process parameters.	Evaluating the type and percentage of defect (example in accordance to ISO 4628-1/5) per main area on the structure and determine the possible cause(s) of failure, if applicable.
Pretreatment and surface preparation.	
Application and drying – document observation and recommended possible areas for improvement(s) (AFIs) <ul style="list-style-type: none"> • Paint kitchen • Paint booth • Oven • Process equipment • Materials • Personnel protective equipment (PPE)/Health, Safety and Environment (HSE) • Logistics • Competencies and work processes • Quality control tools 	Evaluate and investigate which environment(s) the coating may have been exposed to and the duration.
Post treatment and handling <ul style="list-style-type: none"> • Logistics • Storage 	Check and report Dry Film Thickness (DFT) measurements.
Document the observations and recommended areas for improvement(s) (AFIs) if needed.	Check the adhesion/cohesion of the system and report according to ASTM D 3359 (cross-cut test), ISO 16276-2 or ASTM D6677 (x-cut test).
Reporting	Discontinuity (pinhole) testing and report according to NACE SP 0188/ISO 29601, if required.
Distribute the production line survey – feedback report containing: <ul style="list-style-type: none"> • Executive summary identifying the major strengths and recommended areas for improvement • Detailed observations • Possibility for a face to face debrief 	If the generic paint type is unknown, determine the paint type using the “Solvent test”.
	All inspections and findings to be clearly documented with pictures. The report may include what type of maintenance/repair is needed and when.
	Document results and recommendations.
	Reporting
	A final report will be distributed when the coating advisor’s inspections are completed.

More than 600 highly qualified technicians at your service

● Hempel service locations ● R&D centres



In a competitive environment, success requires more than just technology. You also need people with the right skills, knowledge, experience and attitude to turn that technology into a value-adding solution. This is where Hempel stands out.

Each day, our more than 600 highly qualified coating advisors and engineers work with customers around the globe to optimise their projects and ensure their coating systems meet or exceed expectations.

Hempel coating advisors are safety trained within:

- IRATA
- HUET
- BOSIET

More than 70 per cent of Hempel coating advisors are certified within:

- NACE
- FROSIO

More than 600 highly qualified coating advisors work within specialised areas such as:

- Wind
- Offshore
- Marine
- Concrete coatings
- Containers

Protective services

Since 1915 Hempel has been a world-leading coatings specialist, providing protection and inspiration to the world around us. Today we have over 6,000 people in 80 countries delivering trusted solutions in the protective, decorative, marine, container, industrial and yacht markets. This includes many recognised brands like Crown Paints, Schaeppman and Jones-Blair.

Hempel is proudly owned by the Hempel Foundation, which supports cultural, humanitarian and scientific causes across the world.

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