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Interpon HT

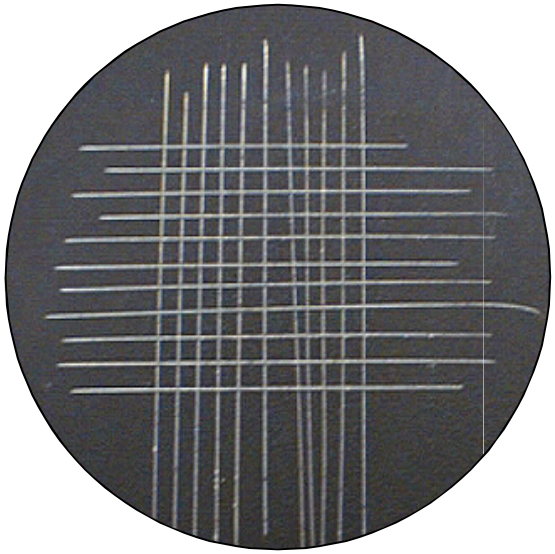
High Temperature resistant Powder Coatings

Interpon HT

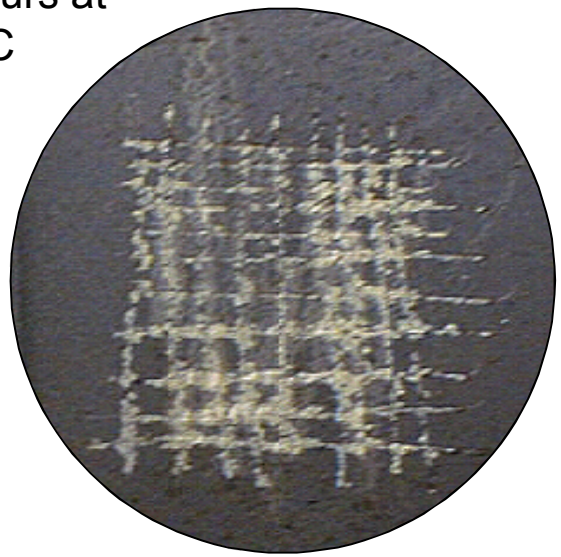
Heat resistance properties from 200°c up to 550°C

Silicon-based products as organic resins are degraded by heat to form ash:

Test 16 hours at 315°C



Interpon HT



Interpon 700

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Interpon HT range overview

3 ranges of products have been developed depending of the service temperature:

Range	Chemistry	Max Peak T°C	Max Service T°C
Interpon HT 350	Epoxy / Acrylic / Silicon	350°C	< 300°C
Interpon HT 450	Acrylic / Silicon	450°C	400°C
Interpon HT 550	100% silicon	550°C	500°C

Always refers to the specific product datasheet for individual product heat resistance

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Available finishes

Range	Colours	Aspect	Gloss
Interpon HT 350	Colours possible including white Metallics	Smooth Fine Texture	Gloss Satin Matt (fine texture)
Interpon HT 450	Greys Blacks Metallics (Chrome, Aluminium, Sparkle…)	Fine Texture	Matt (fine texture)
Interpon HT 550	Dark greys Blacks Metallics (Sparkle)	Fine Texture	Matt (fine texture)

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Typical benefits

Gloss and colour stability: no fading of gloss / colour after heat exposure

Excellent resistance to delamination

Excellent resistance to cracking

Corrosion resistance

Single coat application

Environmentally friendly: no Solvent / VOC emission

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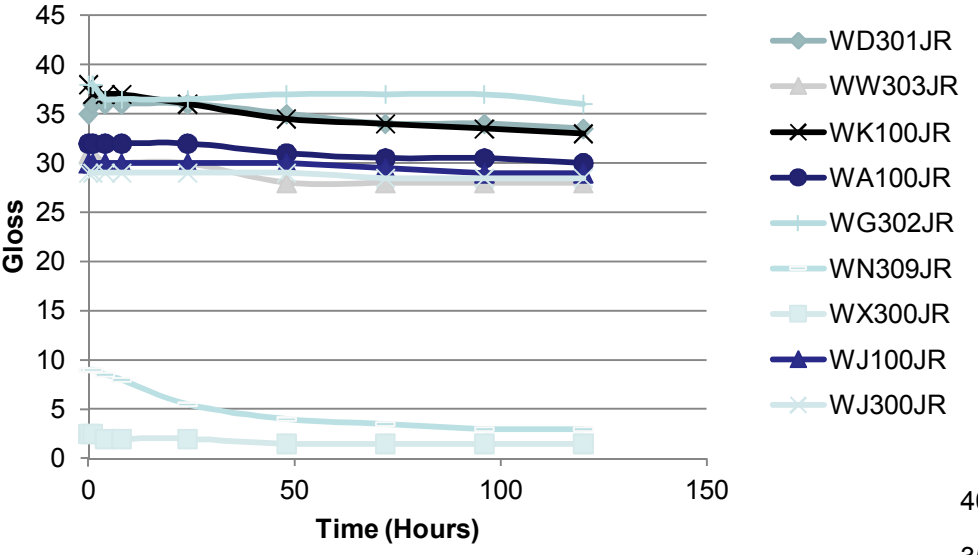
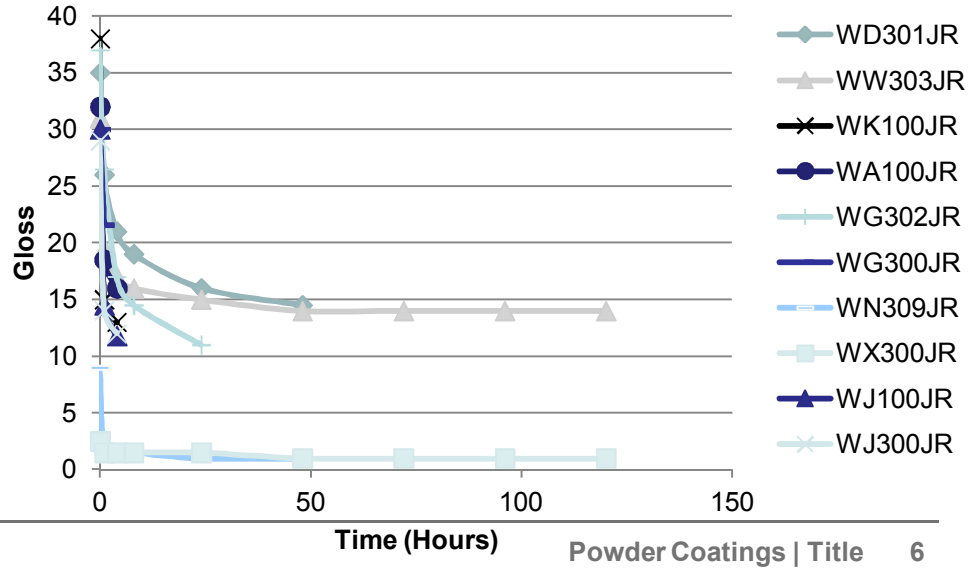
Technical characteristics

Interpon HT 350 - Heat Test 200°C



Interpon HT 350 - Heat test 300°C

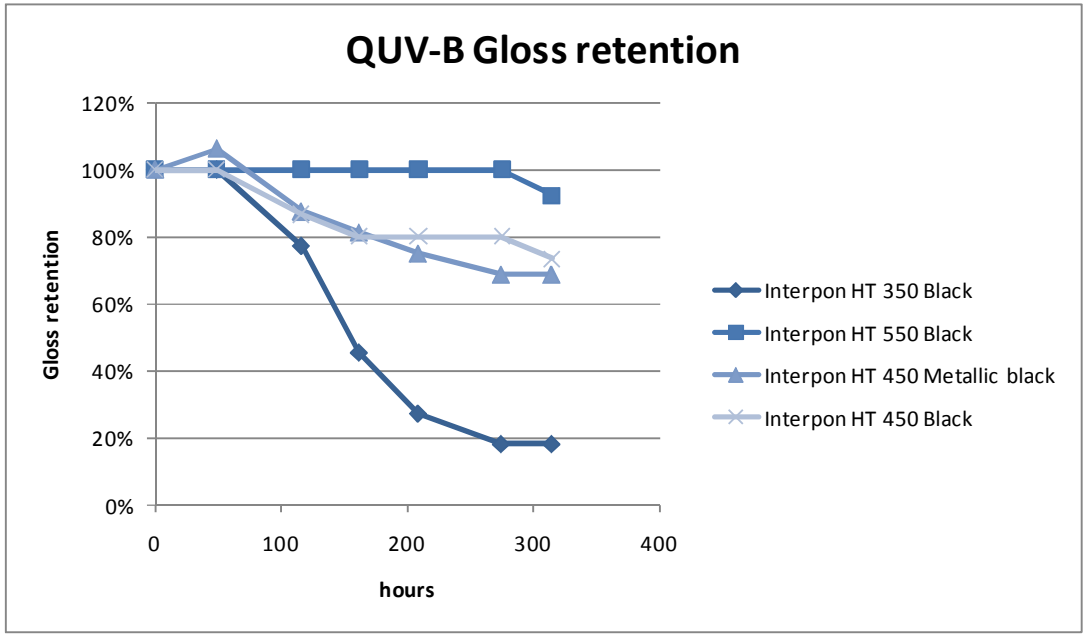


Technical characteristics

Good adhesion: < Class 1 at 45 – 65µm

Good scratch resistance : between 2H and 4H

UV resistance of silicon resin is excellent but products containing epoxy resins are not suitable for outdoor.



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Substrates

Interpon HT products can be applied on:

- Steel
- Cast Iron
- Aluminium
- Cast Aluminium
- Aluminized steel

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Surface pretreatment

Proper substrate pretreatment is critical to the performance of high service temperature products (Adhesion)

Substrate must be free of oil, grease, scale, rust and dirt.

Pretreatment may vary with subtrate type and application. Grit blast may be adequate for some applications

It is highly recommended to perform testing to determine if the pre treatment and coatings process meet your application requirements

Application / Curing

Interpon HT powders can be applied by electrostatic equipment at 45 – 65 µm

They can be recycled up to 20% for non metallic powders

Curing schedule (object temperature):

>20 minutes 210°C

>15 minutes 220°C

>10 minutes 230°C (only for Interpon HT 550)

Storage: 6 months < 27°C

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Typical end-uses

Stoves, Fireplaces, BBQs

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Typical end-uses

Radiators, lighting fixtures, exhaust components, mufflers, chimney flues and generally all parts having exposure to heat.

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Products list

Interpon HT 350		Interpon HT 450		Interpon HT 550	
WA001JR	Polar white	WL305JR	Grey Ral 7021	WN303JR*	Black
WA100JR	White A910	WL311JR	Grey	WN304JR*	Black plus
WD301JR	Ivory	WN306JR	Black Violet	WN305JR	Black dark
WF100JR	Orange RAL 2003	WN308JR*	Black Iron ITA	WX305JR	Mineral Grey
WG100JR	Pink Ral 3015	WW301JR	Chrome		
WG300JR	Red	WW305JR*	Black Shimmer ITA		
WG301JR	Red	WW307JR	Gold Black		
WG302JR	Red Purple	WW308JR	Chrome		
WJ100JR	Sea Blue	WW309JR	Grey Metallic Stove		
WJ300JR	Blue A515	WW312JR	Black Metallic		
WK100JR	Green RAL 6019	WX302JR*	Grey Ancient marble		
WK300JR	Green Pantone 356	WX306JR	Black Metallic		
WN309JR*	Black 99-7014				
WW303JR	Mild Silver				
WW304JR*	Grey Sparkling				
WW314JR	Bronze				
WX300JR	Rust marble				
WX301JR	Beige Avena Marble				

** Products on stock*