

Product & Technical Data Sheet

SteelAge is a superior range of highly popular blackened-effect finishes formulated for external and internal use. Designed to capture the traditional chemically blackened or browned metal finish through a multi-stage surface conversion process; it retains an outstanding decorative finish which is highly protective and more durable than traditional chemical blackening.

Suitable for Architectural Metalwork

- Aluminium
- Mild Steel
- Stainless Steel
- Cast Metals
- Galvanised and Zinc Coated Substrates
- Qualizinc Arc Metal Spray

Properties & Finish Characteristics

- Available in three main finishes: Fired Steel, Burnished Steel and Aged Bronze Stipple
- Sealed finish with no rusting or bleed issues
- High performing finish for aesthetic applications
- Chemically stable and totally inert
- Well suited to high traffic areas
- No adverse damage or weakening of the substrate
- Environments - Interior and Exterior: C1, C2, C3, C4 and C5
- Gloss level - Matt (0 - 30 GU)

Advantages over Chemical Blackening

- Unlike chemical blackening there are no toxic chemicals or fumes in the application of the finish
- There is no risk of staining or damaging property such as paving or clothing
- Unlike chemical blackening, SteelAge can be used externally

Durability & Weather Resistance Performance

- Good resistance to scratches and markings and easy to clean
- Durable exterior grade
- SteelAge reduces fabrication marks, such as welds and pitting
- Excellent weather resistance - Accelerate Weathering - Tested to ISO 16474-2
- Acetic / Neutral salt spray resistance - ISO 9227 - Passed 1,000 hrs
- Adhesion - Achieved the ultimate Class 0 in accordance with ISO 2409
- Good resistance to acid, alkalis and oil at ambient temperatures
- Durability of up to 40+ years depending on environment, pre-treatment system and cleaning
- Warranty - Up to 30 years

Fire Rating



- All SteelAge finishes are available in Fire Rated versions (Rated to A2-s1,d0) on prior request

Repair & Maintenance

- Simple and easy to clean with pH neutral water and soft cloth or sponge
- Damage repair systems available for onsite application

Environment

- SteelAge offers several environmental benefits compared to traditional chemical blackening finishes:
- **Reduced VOC Emissions:** SteelAge finishes emit fewer volatile organic compounds (VOCs) into the air compared to Chemical Blackening
- **Minimal Waste Generation:** SteelAge finishes minimise waste because they don't involve solvents
- **Elimination of Hazardous Substances:** SteelAge finishes eliminate air pollutants (HAPs) found in chemical blackening
- **Energy Efficiency:** SteelAge finishes require less energy than chemical blackening during application
- **Enhanced Durability:** SteelAge-finished surfaces are more durable, reducing the need for frequent repair and fewer resources required over time
- **Promotes Sustainability:** SteelAge-finished products are more sustainable due to their durability, reducing the demand for new raw materials

