



**Technologies**

# TECHNICAL INFORMATION

## P3-SUNCORITE AQUA 100RFU BLACK

### WATER BASED, HIGH PERFORMANCE ANTI-CORROSIVE COATING

#### 1. DESCRIPTION

**P3-Suncorite Aqua 100RFU Black** is a water based coating of exceptional corrosion protection. When applied at 50-70 microns over zinc phosphate pretreated metal or over shot blasted steel substrates, corrosion protection in excess of 1000 hours ASTM B117 will be achieved.

**P3-Suncorite Aqua 100RFU Black** is based on a copolymer of vinyl acrylic, and polyvinylidene chloride plus a combination of carbon black pigment, fillers and an anti-corrosive pigment.

**P3-Suncorite Aqua 100RFU Black** is completely free of lead, and free of toxic chromate anti-corrosive pigments. **P3-Suncorite Aqua 100RFU Black** avoids the dangers of fire hazard and harmful solvents as used in solvent based systems.

#### 2. USES OF P3-SUNCORITE AQUA 100 BLACK

**P3-Suncorite Aqua 100RFU Black** will give an exceptionally high degree of corrosion protection to steel and cast iron. **P3-Suncorite Aqua 100RFU Black** is especially suited to the needs of the automotive industry. Components that cannot withstand the baking processes of powder or electrophoretic coating can meet the highest automotive corrosion tests with this product.

This air dry / force dry coating means that expensive stoving processes can be reduced or eliminated. Makers of rubber-metal anti-vibration mountings, components with temperature sensitive seals such as propeller shafts, steering racks, shock absorbers etc. will all benefit from **P3-Suncorite Aqua 100RFU Black**.

#### 3. STORAGE

Store away from extremes of heat and cold. Protect from frost. Minimum temperature 5°C.

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#### **4. METHOD OF APPLICATION**

Stir well before use. The use of hand held impeller stirrers is recommended to ensure complete mixing of the product prior to use.

**P3-Suncorite Aqua 100RFU Black** can be applied by conventional pneumatic spray and by dipping.

Use as supplied for maximum corrosion protection.

Steel surfaces should be free of grease, dirt and rust. For maximum performance apply over a light zinc phosphate surface (approximately 2 gms/square metre) or on shot blast steel, blast to Swedish standard Sa 2½.

#### **5. DRYING**

**P3-Suncorite Aqua 100RFU Black** is supplied as an air dry/force dry product. It is best dried at 50-80°C for 20 minutes at metal temperature 80°C maximum. A flash off time of at least 10 minutes is required where force drying is used. **P3-Suncorite Aqua 100RFU Black** has a minimum film forming temperature of 10°C. It is advisable to ensure a minimum ambient temperature of 15°C however or uneven appearance (greying of the film may occur). Alternatively **P3-Suncorite Aqua 100RFU Black** responds well to infra red; when drying is achieved in around 5 minutes. Post hardening for a further 7 days will provide the coating's full resistance. Do not overbake **P3-Suncorite Aqua 100RFU Black**.

Air drying to handle is achieved normally in 30-60 minutes depending on film thickness applied, temperature and relative humidity.

#### **6. STRIPPING OF P3-SUNCORITE AQUA 100RFU BLACK**

Jigs coated in **P3-Suncorite Aqua 100RFU Black** are best stripped by Shotblasting. **P3-Suncorite Aqua 100RFU Black** is slowly attacked by methylene chloride based cold strippers such as our product **Snoflake 260**. **P3-Suncorite Aqua 100RFU Black** can also be dissolved off by soaking in Butanone (methyl ethyl ketone.) However note the flammability of Butanone.

**Caution: P3-Suncorite Aqua 100RFU Black** may only be removed by pyrolysis after consultation with our Technical Service Representative. Thermal degradation of chlorinated products such as **P3-Suncorite Aqua 100RFU Black** can lead to the formation of dangerous gases such as hydrochloric acid fumes, phosgene etc.

**7. TECHNICAL DATA**

Colour	:	Black.
Solids	:	50.0% w/w.
Density	:	1.33
Theoretical coverage at 50 microns DFT	:	7.0 M <sup>2</sup> /litre.
Supply Viscosity	:	22-25 seconds BS B4 cup at 25°C.

**8. HEALTH AND SAFETY**

In normal use **P3-Suncorite Aqua 100RFU Black** satisfies all current safety legislation as a non-hazardous product. However, acrylic monomer vapour will concentrate in the air space between the paint and the lid. Open cans in well ventilated areas as the acrylic monomer may irritate the eyes. Once this vapour has dispersed, no hazards are associated with this product.

Full information on the hazards and safe handling of the product as supplied is given in the Health & Safety Data Sheet which must be read and understood by everyone handling or using this product.

**DISCLAIMER**

Any information given is, to the best of our knowledge, the best currently available, with respect to our products and their use, but it is subject to revision as additional knowledge and experience is gained. Such information is offered as a guideline for experimentation only and is not to be construed as a representation that the material is suitable for any particular purpose or use. Customers are encouraged to make their own enquiries as to the material's characteristics and, where appropriate, to conduct their own tests in the specific context of the material's intended use. This information is not a license to operate under nor is it intended to suggest infringement of any patent. We guarantee a uniform quality standard for this product. The only conditions and warranties accepted by Henkel in relation to this product or process are those implied by either Commonwealth or State statutes.