



The Shepherd Color Company
We Brighten Lives



DYNAMIX

Key Features

- Easily dispersed, no grinding required
- Maximum solar reflectance
- Outstanding weathering performance
- Heat & chemical resistance
- 100% color
- Compatible with solvent, water, 100% solids

Benefits

- Infrared reflecting black
- Fully dispersed in minutes
- Reduce cycle time by >75%
- Consistent "locked-in" color and reflectance
- Flexible batch sizing
- Eliminates color development issues
- Truly universal colorant

Key Markets

- Building & Construction
 - Metal roofing & cladding, window profiles, curtain wall panels, facades
- Automotive
- General Industrial
- Architectural Coatings
- Camouflage

Typical Applications

- Coil Coatings
- Powder Coatings
- Waterborne & Solventborne Coatings
- Silicate & Masonry Coatings
- Radiation cured Coatings

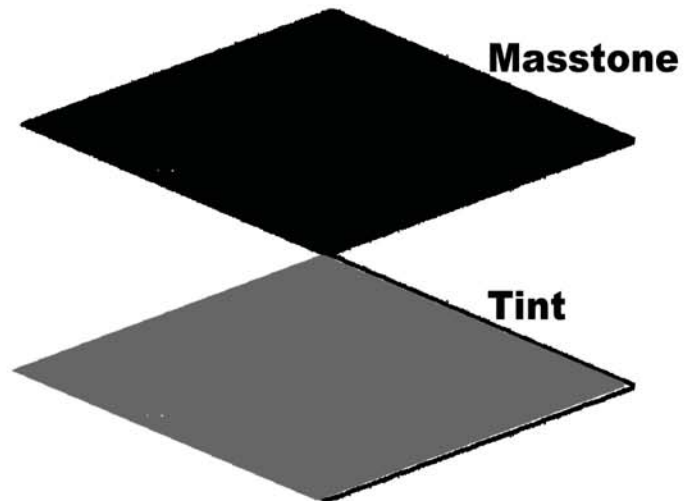
**PURE
CONVENIENCE**

**PURE
CONSISTENCY**

**PURE
PROFITABILITY**

Black 30C941

CI Pigment Brown 29



Just stir them in!

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Technical Information Black 30C941



Chemical Composition

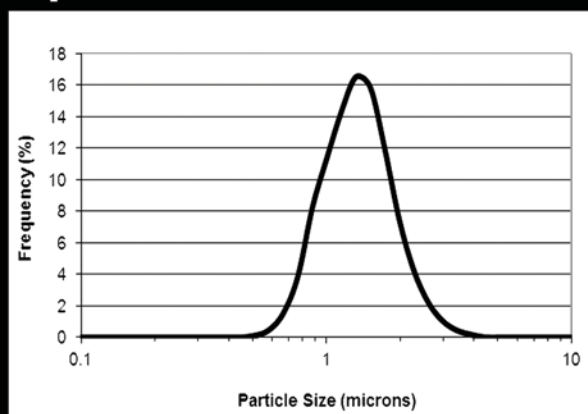
- FeCr (iron chrome)
- Hematite (Fe Cr)₂ O₃
- CAS # 12737-27-8

Regulatory Compliance

- Toy Safety EN71.3: 2013 Category I (2% max)
- ELV 2000/53/EC
- RoHS 2000/95/EC
- WEEE 2002/96/EC
- Council of Europe AP(89)1
- CONEG
- AS 2070-1999
- TCLP
- Packaging 94/62/EC
- BfR

Particle Size Distribution

Mean particle size: 1.3 microns



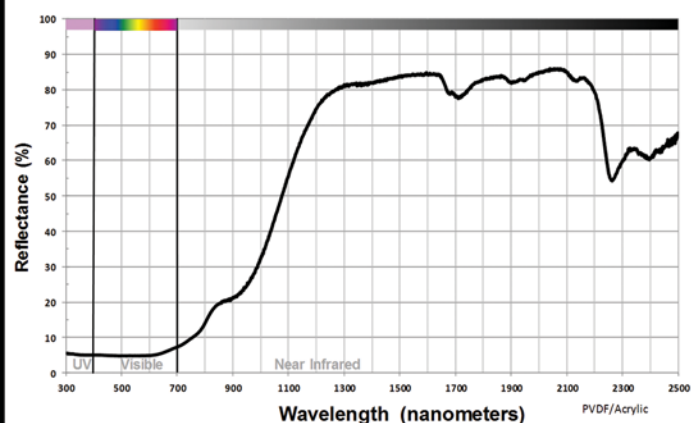
IR Properties



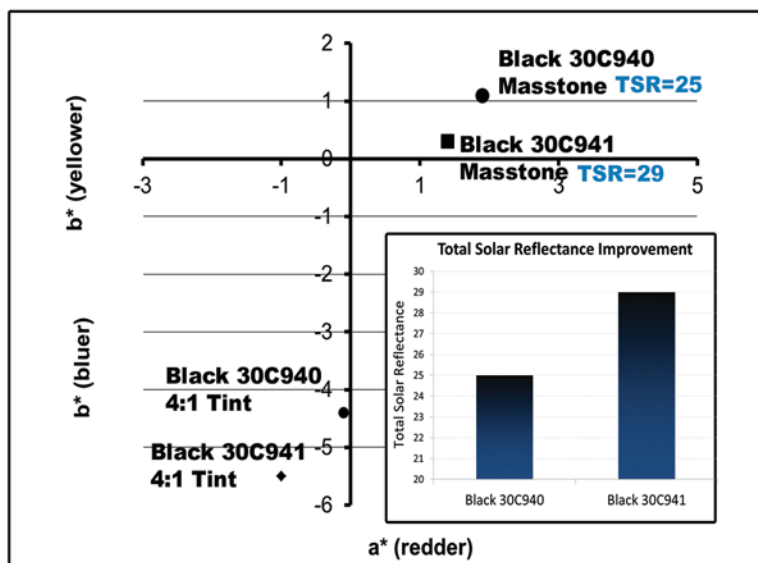
Total Solar Reflectance (TSR) 29%

Black 30C941 is part of the Arctic® product range for coatings and can be used widely in color matches to maximize TSR.

Reflectance Curve

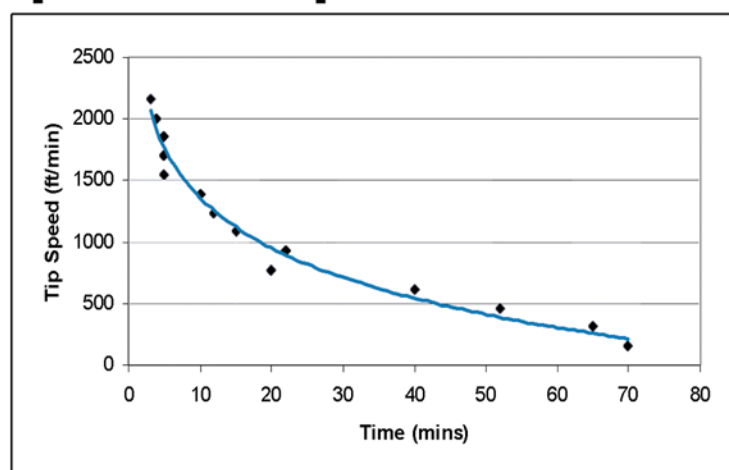


Color Space



Masstone	L*	a*	b*	4:1 Tint			
Black 30C941	26.0	1.4	0.3	Black 30C941	67.2	-1.0	-5.5
Black 30C940	24.6	1.9	1.1	Black 30C940	64.3	-0.1	-4.4

Time to achieve optimum dispersion



Processing time depends on equipment used.
Dispersion times to achieve (>7.5 Hegman)

Typical times are:

- Shaker 5 - 15 minutes
- HSD 5 - 20 minutes
- Paddle stirrer 45 - 90 minutes