

# CARBON BLACKS FOR COATINGS

**SELECTION GUIDE**

Material category	Product performance requirements	Lead applications	Carbon black products	Jetness	Required milling equipment (to achieve <10 microns)				Additional information
					Horizontal mill	Vertical mill	Sand mill	High speed disperser	
<b>HIGH COLOR BLACKS</b>	Applications where very high jetness is the primary performance requirement, especially automotive, wood and electronics coatings.	<ul style="list-style-type: none"> <li>- Automotive basecoats</li> <li>- Wood coatings</li> <li>- Electronic coatings</li> <li>- Powder coatings</li> </ul>	EMPEROR® 2000	<b>HIGHEST</b>					Extremely high jetness, designed for ease of dispersion in <b>waterbased or polar solvent formulations</b> .
			EMPEROR 1800					High jetness, designed for ease of dispersion in <b>waterbased or polar solvent formulations</b> .	
			EMPEROR 1600		●	◐	◐	○	High jetness and very easy to disperse in <b>solvent based formulations</b> .
			MONARCH® 1300						High jetness pigment, designed for use in both water and solvent formulations.
			EMPEROR 1200						Designed for ease of dispersion and excellent blue undertone in <b>solvent based formulations</b> .
<b>MEDIUM COLOR BLACKS</b>	Applications where jetness dispersability and ease of use are primary drivers, especially powder coatings and exterior enamels.	<ul style="list-style-type: none"> <li>- Powder coatings</li> <li>- Exterior enamels</li> <li>- Industrial coatings</li> </ul>	MONARCH 1000					Medium high jetness in masstone applications.	
			MONARCH 800		●	●	◐	○	Medium color carbon black with good balance of color strength and dispersability.
			MONARCH 700						Easy to disperse medium color black for masstone and tint applications.
<b>LOW VISCOSITY BLACKS</b>	Applications where a basic black color is required with very low viscosity, especially industrial coatings.	<ul style="list-style-type: none"> <li>- Industrial coatings</li> <li>- General purpose coatings</li> </ul>	MOGUL® L					Excellent dispersion and stability in coatings formulations.	
			REGAL® 400R		●	●	●	◐	Good stability and tinting strength.
<b>MULTI-PURPOSE BLACKS</b>	Applications where a basic black color is required, especially in industrial coatings.	<ul style="list-style-type: none"> <li>- Industrial coatings</li> <li>- General purpose coatings</li> </ul>	REGAL 660R					High tinting strength and low viscosity.	
			MONARCH 570		●	●	●	●	All purpose grade for use in both masstone and tinting formulations.
			REGAL 330R						Easy to disperse low viscosity carbon black.
<b>TINTING BLACKS</b>	Used as tinting blacks in a wide variety of applications, where blue undertone and tinting strength are primary performance requirements.	<ul style="list-style-type: none"> <li>- Architectural coatings</li> <li>- Automotive coatings</li> <li>- Industrial coatings</li> </ul>	MONARCH 280	N/A, tinting only	●	●	●	●	Excellent blue undertone and high tint strength with TiO <sub>2</sub> .
			MONARCH 120						Easier to process than MONARCH 280 carbon black.
<b>CONDUCTIVE BLACKS</b>	Used as a conductive pigment, especially in static dissipative coatings.	<ul style="list-style-type: none"> <li>- Static dissipative coatings</li> <li>- Plastic coatings</li> </ul>	VULCAN® XC72R	N/A, conductive coatings only	●	◐	◐	○	Fluffy conductive carbon black is very easy to work with in coatings formulations.

● Acceptable milling equipment   ◐ May be sufficient, dependent on dispersant selection and other factors   ○ May not disperse carbon black to <10 microns

All non-EMPEROR products are also available in pellet form. Pellets often require a premix step to achieve complete dispersion. Additional products are available for specific applications. For details, please contact your regional Cabot technical support representative. The EMPEROR, MONARCH, MOGUL, REGAL and VULCAN names are registered trademarks of Cabot Corporation.

