



# Durotech<sup>®</sup>

Complex Inorganic Colour Pigments

## Inorganic colour pigments for demanding applications

Complex inorganic colour pigments (CICPs) derive basically from the chemical base of rutil  $TiO_2$  or spinel  $MgAl_2O_4$  by doping the host lattice. They are characterized by excellent fastness properties. CICP's are very lightfast and extremely weather resistant. Furthermore, their extraordinary acid, alkaline and chemical resistance are in conjunction with their superb fastness to heat reasons why these class of pigments is highly recommended for demanding applications.

Pigments marketed under the brand Durotech® are a selection of very stable inorganic colour pigments, designed for extreme requirements. Further colour indices and tailor-made solutions are available on request.



### Key benefits

- Easy to disperse
- High temperature resistance
- Chemical resistant
- Light fastness
- Weather stability
- IR reflective pigments available
- Compatibility with a wide range of resins and coating systems
- Consistant quality

### Applications

- Industrial coatings
- Powder coatings
- Coil coatings
- Architectural paints
- Ceramic applications
- Automotive coatings
- Polyolefines (HDPE, LDPE, PP, etc.)
- Polyvinylchloride
- Engineering polymers (ABS, PET, etc.)

## Durotech® colour range

Full Shade	Reduction 1:4 $TiO_2$	Durotech®	Colour Index	Chemical structure	Density [g/ml]	Oil absorption [g/100g]	TSR <sup>1</sup> [%]	Heat resistance [°C]	Light fastness	Weather fastness
		Yellow 1053	PY 53	Ni-Sb-Ti Rutil	4.2	18	60	800	8	5
		Yellow 1153	PY 53	Ni-Sb-Ti Rutil	4.3	17	60	800	8	5
		Orange 2024	PBr 24	Cr-Sb-Ti Rutil	4.2	16	55	800	8	5
		Orange 2124	PBr 24	Cr-Sb-Ti Rutil	4.4	14	54	800	8	5
		Blue 5028	PBl 28	Co-Al Spinel	4.3	18	25	800	8	5
		Blue 5036	PBl 36	Co-Al-Cr Spinel	4.1	20	33	1000	8	5
		Blue 5136	PBl 36	Co-Al-Cr Spinel	4.2	20	33	1000	8	5
		Green 6050	PGr 50	Co-Ti-Ni-Zn Spinel	4.0	14	23	900	8	5
		Green 6250	PGr 50	Co-Ti-Ni-Zn Spinel	3.9	14	40	500	8	5
		Black 9028	PBk 28	Cu-Cr Spinel	5.4	12	7	800	8	5
		Black 9029	PBr 29	Cr-Fe Hematite	5.2	13	20	800	8	5
		Black 9030	PBk 30	Cr-Fe-Ni-Mn Spinel	5.3	12	13	500	8	5

The colours are only for visualization and are not an exact reproduction.

<sup>1</sup> Total Solar Reflectance (TSR) describes the solar reflectance of a pigmented surface. The higher the value the more the solar radiation is reflected - the lower the temperature increase compared to the ambient temperature, which can be measured on a coating surface after solar irradiation.

## Habich supports your creativity


Habich GmbH is a globally recognized manufacturer of special inorganic pigments. Our product portfolio includes, in addition to inorganic coloured pigments and coloured pigment preparations, a broad range of inorganic corrosion protection pigments, pigment slurries and pigment pastes.


As a 6th generation Austrian family business we stand for reliability and sustainability in our business relationships. For more than 170 years, customer satisfaction and customer success are our main objectives. Flexibility and innovative strength characterize our abilities.

Thanks to our highly motivated, chemically and technically trained employees we also can provide tailor made solutions to meet any situation.



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