

AROVANCE

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Adhesives & Sealants Series

AROVANCE 18

AROVANCE 18 is a fine particle specialty carbon black developed for adhesive and sealant systems where colour depth, surface quality and processing consistency decide the formulation. Its fine primary particle size (23 to 27 nm) and high tinting strength (114 to 126%) deliver deep jet black and strong UV screening at low loadings, while moderate structure keeps viscosity build controlled and paste rheology predictable.

The grade disperses readily in polyurethane, silicone, MS polymer, epoxy, acrylic and hybrid binder systems. Low sieve residue (max 20 ppm at 45 µm) and controlled ash support smooth, defect-free beads and films, making AROVANCE 18 the colour reference of the AROVANCE Adhesives & Sealants series for construction sealants, industrial bonding pastes and pigmented adhesive systems.

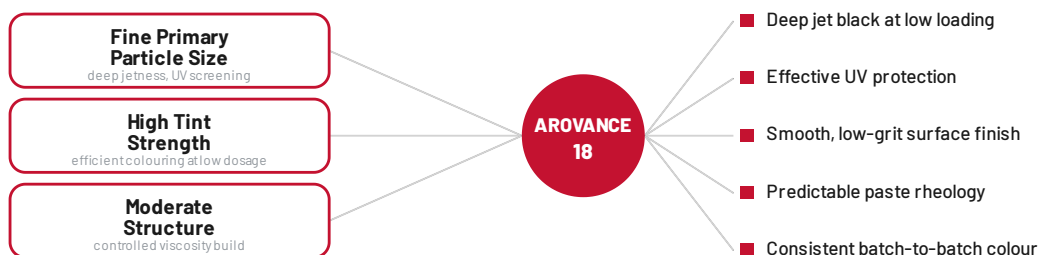
KEY APPLICATIONS

- Pigmentation of PU / MS / silicone / hybrid sealants
- Colouring of epoxy, PU & acrylic adhesives
- UV-exposed outdoor & facade sealants
- Industrial bonding pastes & gasketing compounds
- Black paste concentrates for sealant bases
- Pigmented potting & encapsulation compounds

PERFORMANCE FEATURES

- High tinting strength: 114 to 126%
- Fine primary particle size: 23 to 27 nm
- Deep jet black at low loadings
- Effective UV screening in exposed joints
- Low sieve residue (max 20 ppm): smooth finish
- Controlled, predictable viscosity build

Defining Properties → Adhesive & Sealant Benefits



TYPICAL VALUE

Test Items	Unit	Standard
Physical Form	–	Powder
DBP Absorption Number	cc/100g	97 ± 6
BET Surface Area	m ² /g	112 ± 7
Tint Strength	%	120 ± 6
Average Primary Particle Size	nm	25 ± 2
Volatile Content	%	≥ 1.0
Ash Content	%	≤ 0.5
Sieve Residue (#325, 45 µm)	ppm	≤ 20
PH Value		8.0 ± 1.0

APPLICATION FIELD

Application	Recommended Dosage
Sealant pigmentation (PU / MS / silicone)	1.0 – 3.0 %
Adhesive colouring (epoxy / PU / acrylic)	0.5 – 2.0 %
UV-exposed outdoor & facade sealants	1.5 – 3.0 %
Bonding pastes & gasketing compounds	1.0 – 2.5 %
Black paste concentrates	5 – 15 %

- Recommended dosages are guideline starting ranges on total formulation weight and vary with binder system, filler load and processing conditions. Evaluate in the specific formulation before scale-up.

Physical Form: Powder | Packaging: on request | CAS No. 1333-86-4 | EINECS No. 215-609-9

ISTAR MATERIALS

Ground Floor, Plot 1/3, Priyadarshini Parisar
West Yellow Building
Opp. Hotel Grand Dhillon, Behind IDBI
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Notice and Disclaimer

The data and information provided herein are based on our current knowledge and experience and are believed to be accurate. However, ISTAR MATERIALS cannot guarantee that similar results will be obtained by others as processing conditions and formulations may vary. This information is provided for guidance purposes only and does not constitute a warranty or guarantee of performance.

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