APPLICATION GUIDE

GrafGen™ Int/Ext · Front · Home · Pro

Bio-based paints with $CaCO_3$™ Technology (Graphene Technology) · from substrate to full cure

EDITION 30.09.2026 USE WITH THE GRAFGEN AND PRIMER TDS

01 THE SYSTEM AT A GLANCE

Thin, even coats with a wet edge at all times: GrafGen builds hide coat by coat, and too much product in a single coat slows curing and causes micro-cracking.

01 PREPARE
Substrate
Clean, dry and sound. Prime only where table 02 says so.

→ **24 h** IF PRIMED

02 1ST COAT
GrafGen
Reduced **10%** by weight (Front: **5%**).

→ **2–4 h**

03 2ND COAT
GrafGen
Reduced **5%** by weight, same across the wall.

→ **2–4 h**

04 3RD COAT
GrafGen
Optional. If hide is incomplete or for deep colors.

→ **24 h** DRY

05 CURE
10 days
No washing or scrubbing. Exterior: no rain or dew for 48 h.

02 WHAT TO DO ON EACH SUBSTRATE

SUBSTRATE	PREPARATION	PRIMER
Well-bonded flat paint · satin or gloss paint	Clean; scuff-sand gloss and remove dust	Not needed
Peeling paint or vapor-blocking film	Remove: scraping, pressure washing or stripper	Per substrate
Gypsum plaster, perlite, patching compound	Dry; sand patches and remove dust	**Primer L44**
Drywall	Joint compound sanded, dust-free	**Primer L44**
New stucco, concrete, CMU or brick	Cured **≥ 28 days**, clean and dry	**Primer L44**
Mold, algae or mildew residue	Suitable biocide, rinse and let dry	**Primer L44**
Walls with salts or efflorescence	Brush off salt deposits dry	**Neutralysalt Primer**
Wood and MDF	Sand, then blow off dust with compressed air	**All Terrain 4x4 Primer**
Rust-free metal · tile, glass, non-porous	Clean, dry and degreased	**All Terrain 4x4 Primer**
Rusted metal · constant water contact	Do not apply GrafGen	Technical Dept.

Fix the cause first: structural cracks, rising damp, condensation or leaks. On exterior walls with hairline cracks, use **Front** (elastic, elongation > 250%); repair moving cracks first. In very humid or polluted areas, add a water-repellent sealer. When in doubt, contact the Technical Department.

03 COVERAGE AND WAIT TIMES PER COAT

COAT	PRODUCT · USE	REDUCTION	COVERAGE / COAT	WAIT
PRIMER	**Primer L44**	1:1 with water	**1,020–1,220 ft²/gal**	24 h
	All Terrain 4x4 Primer	Undiluted · 1 coat	**400–480 ft²/gal**	24 h
	Neutralysalt Primer	Undiluted · 1–2 passes	**1,020–1,220 ft²/gal**	24 h
GRAFGEN COATS	**Int/Ext Matte · Eggshell · Semi-Gloss**	1st **10%** · then **5%**	**325–405 ft²/gal**	2–4 h
	Home · interior & exterior	1st **10%** · then **5%**	**365–405 ft²/gal**	2–4 h
	Pro · interior	1st **10%** · then **5%**	**365–445 ft²/gal**	2–4 h
	Front · exterior walls	**5%** in every coat	**80–100 ft²/gal**	2–4 h

GrafGen reduction by weight: 10% ≈ 19–20 fl oz of water per gallon; 5% ≈ 10 fl oz. Times at 77 °F and 60% RH; cold or humid conditions extend them. Dry to handle 24 h; full cure 10 days. Coverage is indicative — test on site. Example: 500 ft², 2 coats of Int/Ext Matte ≈ 2.5–3.1 gal; 1,000 ft² of exterior wall, 2 coats of Front ≈ 20–25 gal.

04 STEP BY STEP

1. **Check the substrate:** clean, dry, sound, free of dust, salts, grease and loose paint; new masonry cured 28 days. Clean off mold, algae or mildew with a biocide.
2. **Mask** woodwork, glass and stone (wipe splashes with water right away) and **prime** where table 02 says so. **WAIT 24 H**
3. **Mix the paint:** stir thoroughly and reduce by weight: **10%** for the 1st coat, **5%** for the following ones (Front: **5%** throughout). For Harmony colors, box all cans of the same color before you start.
4. **1st coat** one wall at a time: cut in by brush and roll right away, close to the edges, without overloading the roller and keeping a wet edge. **WAIT 2–4 H**
5. **2nd coat** the same way, same reduction across the wall; on Eggshell and Semi-Gloss, lay off in one direction. **WAIT 2–4 H**
6. **3rd coat** if hide is incomplete or for deep colors. On Front, keep to 80–100 ft²/gal per coat.
7. **Let it cure:** dry after 24 h. No washing or scrubbing for 10 days.

05 CONDITIONS & TOOLS

WORKING CONDITIONS

- Air and surface temperature **41 °F to 104 °F**
- No direct sun or sun-heated surfaces
- Dry surface, RH ≤ 85%, 5 °F above the dew point
- Exterior: no rain, fog or dew for 48 h after application; on humid days, no late-afternoon painting

TOOLS

- Brush to cut in; 3/8 in nap roller on smooth walls and sheens, 3/4–1 in nap on stucco and masonry
- Airless: tip **315–317** or **210–312**, **1800–2000 psi**, about 12 in from the surface
- Clean tools with **warm water** right after use

06 COMMON MISTAKES AND HOW TO AVOID THEM

Lap marks or picture framing
Rolling over an area that was already drying, or cutting in too far ahead of the roller. Work one wall at a time with a wet edge.

Micro-cracking as it dries
Too much product in a single coat. Several thin coats, within the coverage in table 03.

Uneven sheen or color
Different reduction between buckets, cans not boxed or uneven absorption. Same reduction, boxed cans, and L44 over patches.

Peeling or poor adhesion
Loose old paint or a smooth substrate left unprimed. Remove it, and use All Terrain 4x4 Primer where table 02 says so.

White stains or blisters on exterior walls
Salts or moisture in the wall. Fix the cause, treat with Neutralysalt Primer and paint on a dry surface.

Burnishing when the wall is cleaned
Cleaned before the paint had cured. Wait 10 days before washing or scrubbing.

07 AFTER APPLICATION

- **Cleaning:** after 10 days, sponge and mild soapy water, no solvents or abrasives; Home (scrub Class 2) and Pro (Class 3), gently
- **Touch-ups:** same batch and reduction; on Eggshell and Semi-Gloss, repaint the whole section corner to corner
- **Inspection:** exterior walls once a year; clean off dirt or algae early and treat new cracks before water gets in

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