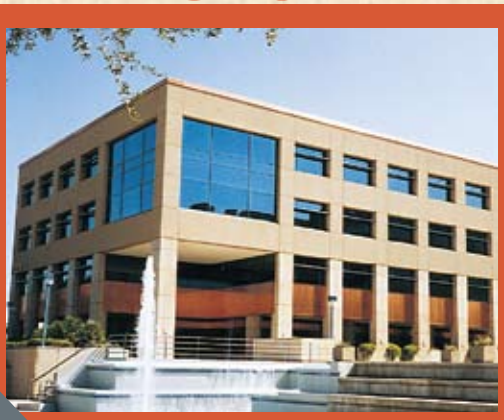
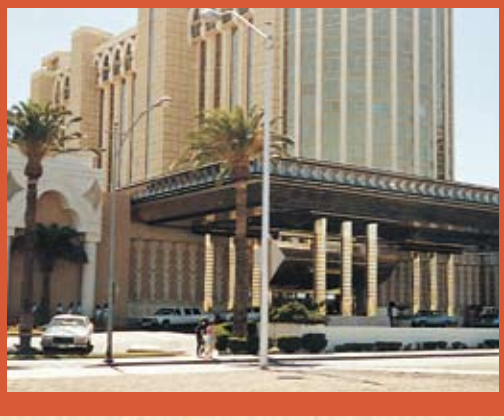
THE ECONOMICAL ALTERNATIVE TO SELF-LEVELING UNDERLAYMENTS

Dura-Cap®





Dura-Cap turns floor challenges into floor successes. With Dura-Cap on your job, you get superior strength, a smooth surface and fast, clean installation by expert applicators. Dura-Cap delivers dependable value — project after project.

NEW
DURA-CAP "GREEN" FORMULATION
NOW ALSO AVAILABLE

Tackle tough floor challenges with Dura-Cap.

When concrete or steel decking needs topping, no product outperforms Dura-Cap® Floor Underlayment. With up to 3,800 psi (26.2 MPa) compressive strength, Dura-Cap is one of the strongest underlayments in the construction industry. It's poured smoother, dries with greater abrasion resistance,and has all the fire and sound control advantages of original Gyp-Crete® Floor Underlayment.

Batch mixed on the job and pumped into place by authorized applicators, Dura-Cap is the perfect finish for precast and cast-in-place concrete. Dura-Cap also smooths old or uneven concrete floors.

Dura-Cap takes foot traffic in 90 minutes. With proper ventilation, virtually any floor covering can be installed just 5–7 days later — hardwood floors, ceramic tile or pavers. Glue-direct, thin-pile carpeting will look better, too, thanks to Dura-Cap's remarkably smooth surface.

The versatile solution.

Count on Dura-Cap to help…

- Cap uneven, rough, spalled concrete floors
- Repair rain/freeze damage to new concrete
- Fill "birdbaths" in concrete floors
- Top precast plank
- Top corrugated steel deck over light-gauge steel framing
- Cover old floor coverings, including vinyl asbestos tile
- Provide fire and sound control over wood frame construction

Quality on every pour.

With more than 3.5 billion square feet of installation experience, Dura-Cap dealers know how to deliver quality. Each job is tested on site for flow and mix consistency, and in our lab for compressive strength to meet specification.

DURA-CAP®
Floor Underlayment

Why Dura-Cap Improves any Commercial Project...

- Smooth, strong surface
- Improves fire resistance
- Accepts virtually all floor coverings
- Muffles footsteps
- Won't shrink crack
- Can be featheredged
- Strengths up to 3800 psi (26.2 MPa)
- May contribute up to 12 LEED® points due to recycled content and very low VOC emissions
- From Maxxon®, the floor specialists

*** Drying Conditions:** Maxxon gypsum underlayments are inorganic and provide no source of nutrients to sustain mold growth. Prolonged contact of moisture with other construction materials, however, can result in mold growth. To avoid growth of mold on construction materials such as wallboard, drywall compound and even dust, it is vital to maintain a low relative humidity both before and after placement of Maxxon gypsum underlayments.

The general contractor must provide and maintain correct environmental conditions to keep the building clean and dry, and protect against infestation of moisture from a variety of potential sources. Moisture can be introduced by other trades through spillage, tracked in mud and rain, plumbing leaks, etc. Often stored in damp conditions, building products may arrive on site laden with moisture that releases after installation. Outside sources such as rain, snow, wind, etc. can also increase moisture levels.

Controlling moisture levels in the building, through appropriate trade sequencing and prevention of potential damage by other trades, is the responsibility of the general contractor. The general contractor must supply mechanical ventilation and heat if necessary. These controls fall under the scope of work of the general contractor — not Maxxon Corporation or the Maxxon gypsum underlayment installer.

Testing: Compressive strength testing must be performed in accordance with modified ASTM C472-79. Before independent sampling, contact the Maxxon Quality Assurance Department to ensure that proper procedures are followed.

Warranty: Maxxon Corporation warrants Dura-Cap Floor Underlayment to be free from manufacturing defects as defined in this warranty. Manufacturing defects are considered to be those defects that occur due to the quality of the Dura-Cap ingredients or from the manufacturing process itself. This warranty does not include labor costs and other costs or expenses associated with the removal or installation of Dura-Cap.

Because the Maxxon Corporation does not perform the actual Dura-Cap installation, it cannot be held responsible for the results of the application. Maxxon Corporation specifically disclaims problems that occur due to weather conditions, structural movement, structural design flaws and application techniques.

This warranty is in lieu of all other warranties expressed or implied including the warranty of merchantability and fitness of purpose and of all other obligations or liabilities on Maxxon Corporation's part. Maxxon Corporation neither assumes nor authorizes any person to assume for Maxxon Corporation any liability in connection with the sale and installation of Dura-Cap Floor Underlayment.

Preparation:

Building interior should be enclosed and maintained at a temperature above 50 °F (10 °C) until structure and subfloor temperatures are stabilized. The subfloor must be broom clean and contaminant free. Before pouring Dura-Cap, the subfloor is coated with a company-approved primer.

Installation Methods:

The minimum thickness of Dura-Cap varies with the type of floor system. Dura-Cap can be featheredged over concrete substrates. Over wood frame construction, the minimum thickness is ¾" (19 mm). It can be poured before or after drywall. Over galvanized corrugated steel deck, poured 1" over the top of the flutings, average pour thickness is 1 9/16".

Continuous ventilation and adequate heat should be provided to rapidly remove moisture from the area until the underlayment is dry. The general contractor must supply mechanical ventilation and heat if necessary.* Under the above conditions, drying time is usually 5–7 days.

Dura-Cap requires a floor covering. Contact your authorized dealer for recommendations for adhering floor goods. Or call or write for a copy of the Maxxon brochure ***Procedures for Attaching Finished Floor Goods to Maxxon Underlayments.*** It is the responsibility of the floor goods installer to determine the compatibility of their product with a particular floor underlayment.

School classroom floor renovation using Dura-Cap. Close-up of wood sleepers, dips and pot holes before (above), and the new, smooth Dura-Cap floor after (below).

Limitations:

(1) The typical maximum depth of Dura-Cap is 3" (76 mm). For depths greater than 3" (76 mm), contact an authorized applicator.

(2) Dura-Cap may be scheduled before or after installation of drywall.

(3) All materials above crawl spaces must be protected by a vapor barrier.

(4) During construction, place temporary wood planking over the underlayment wherever it will be subjected to heavy wheeled or concentrated loads.

(5) Dura-Cap is not designed to be installed on or below grade, except over well-drained structural substrates.

(6) The structural floor should be adequate to withstand design loads with deflection limitations of L/360.

(7) Dura-Cap should not be used for exterior application, or where it will come in prolonged contact with water.

(8) Dura-Cap should not be directly applied to a plastic vapor barrier.

(9) Concrete moisture or vapor emission must be eliminated by others prior to a Maxxon underlayment application for below grade, on grade or suspended slabs.

Acoustical Performance:

The acoustical performance of Dura-Cap is similar to Gyp-Crete® Floor Underlayment. Contact Maxxon Corporation for reports.

Code Listings:

ICC-ES Legacy Report ER-3433, ICC-ES Legacy Report #90-31. GREENGUARD Children & Schools℠.

TECHNICAL DATA

Compressive Strength: Up to 3,800 psi (26.2 MPa) when tested in accordance with modified ASTM C472. Static loading to 3,800 psi (26.2 MPa)
Density: Typical density is 115 lbs. per cubic foot (1842 Kg/m³)
Thermal Resistance at 1" (25mm) thickness: R-0.202
Coefficient of Conductivity (K): 4.76 Btu/sf/hour/°F/inch thickness (.6854 W/[m•°C])
Specific Heat: .229 Btu/(lb.•°F) at 85 °F (.9595 kJ/[kg•°C] at 29.44 °C)
Surface Burning Characteristics: Flame Spread – 0, Fuel Contribution – 0 Smoke Development – 0, (ASTM E84)
VOC Emissions: GREENGUARD Children & Schools℠ Certified

FIRE RATINGS

UL Design #

G524	L211	L525	L551
G560	L212	L526	L552
G563	L501	L527	L553
J917	L502	L528	L555
J919	L503	L529	L556
J920	L504	L530	L557
J924	L505	L531	L558
J927	L506	L532	L559
J931	L507	L533	L560
J957	L508	L534	L562
J966	L509	L535	L563
J991	L510	L536	L564
J994	L511	L537	L571
K906	L512	L538	L573
L001	L513	L539	L574
L003	L514	L540	L579
L004	L515	L541	L581
L005	L516	L542	L583
L006	L517	L543	L585
L201	L518	L544	L588
L202	L519	L545	L589
L206	L520	L546	L593
L208	L522	L547	
L209	L523	L548	
L210	L524	L549	

ULC Design #

L003	L511	M500	M503
L201	L512	M501	M508

SAMPLE USGBC LEED CREDIT AREAS *

Project	Credit	Category	How Requirement is Fulfilled
Indoor Environmental Quality	LEED for Schools, EQ Credit 3.2, Option 2 (Air Quality Testing)	Construction Indoor Air Quality Management Plan	GREENGUARD Certified; (Field testing MUST be completed prior to claiming credit)
	LEED for Schools, EQ Credit 4, Option 3 (Flooring Systems)	Low Emitting Materials	GREENGUARD Cildren & Schools℠ Certified
Materials & Resources	MR 4.1– 4.2	Recycled Content	Fly Ash
	MR 5.1– 5.2	Local/Regional Materials	Manufactured in Blue Rapids, KS 66411; Las Vegas, NV 89036; Camden, NJ 08103; Brunswick, GA 31520; Job Site Manufactured with Local Sand & Water.

*** Credits may vary depending on project type and Maxxon products used. Contact Maxxon Corporation for complete information.**

DURA-CAP®
Floor Underlayment

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The Maxxon Green Mark
Maxxon products with this symbol are LEED-compliant and help to contribute valuable points toward LEED-certified projects.

The GREENGUARD INDOOR AIR QUALITY CERTIFIED® Mark is a registered certification mark used under license through the GREENGUARD Environmental Institute.

Warnock-Hersey Design Number WHI 694-0029 Factory Mutual Design Number FC378 PFS Design Number FC452
*All tests were conducted with ASTM E 119 procedures.