

DON'T—build high crowns over joints. This practice produces shadow areas, encourages ridging.

DON'T—combine casein-based compounds with any non-casein-based compound.

DON'T—expect "all-purpose" type compounds to possess all the superior characteristics of compounds designed for specific purposes.

DON'T—combine powdered and ready-mixed compounds.

DON'T—use drill-type mixers with speeds higher than 600 RPM. Excessive mixing speeds whips air into compounds and accelerates hardening action of Durabond tape embedding compounds.

DON'T—apply excess knife pressure when spotting nail heads. This practice scoops compound out of the dimpled area surrounding the fastener.

DON'T—allow painters to begin work before joints are thoroughly dry. Painting over wet joints is a major cause of joint discoloration.

DON'T—over thin compounds with water. Excess water doesn't speed mixing—it can cause delayed shrinkage and bond failures.

Two exceptions to the rule—Durabond Joint Compound-Taping and Durabond 90 Joint Compound-Multi-Purpose—tolerate excess water since it does not materially affect their hardening rates.

DON'T—allow Durabond Joint Compounds to become contaminated with other compounds. Never apply Durabond Joint Compound-Topping over casein-based compounds.

DON'T—HESITATE TO CONTACT YOUR U.S.G. REPRESENTATIVE for more information about the most versatile family of joint treatment compounds in the industry:

- USG Brand Joint Compounds in the crisp white bags, for those who demand the finest formulations that mix faster, apply smoother.
- PERF-A-T are Joint Compounds in the rich brown bags, choice of exacting professionals for years.
- Durabond Joint Compounds in the light tan bags, for special or regular applications where extreme strength, hardness, speed and minimum shrinkage are desired.
- USG Ready-Mixed Compounds—pre-mixed,

factory-controlled quality and ready to use when you open their containers. Specify: USG Ready-Mixed Joint Compound-All Purpose for taping, topping or texturing. Specify: Cover Coat, a drywall compound for direct application to concrete surfaces.

Drying Time— Joint Compound Under Tape

For evaporation of 10 lbs. water per 250' tape, corresponding to 1/16" to 5/64" wet compound thickness under the tape. The drying times for thicker (or thinner) coats of wet compound between the tape and board will increase (or decrease) approximately in proportion to the wet compound thickness.

These drying times apply when the exposed surface of the tape is bare or nearly bare, and when adequate ventilation is provided. A heavy compound-coat over tape lengthens drying time.

RH	RH - Relative Humidity											D - Days (24 hrs.)				
	H - Hours											12	18	24	30	48
98%	53.0	38.0	28.0	18.0	12.0	9.0	6.0	4.5	3.0	2.0	1.5	1.0	0.8	0.6	0.4	0.3
97%	37.0	26.0	18.0	12.0	9.0	6.0	4.5	3.0	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2
96%	28.0	21.0	14.0	10.0	7.0	5.0	3.5	2.5	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2
95%	25.0	17.0	12.0	8.0	6.0	4.0	3.0	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2	0.1
94%	20.0	14.0	10.0	7.0	5.0	3.5	2.5	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2	0.1
93%	18.0	12.0	9.0	6.0	4.0	3.0	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.1
92%	15.0	11.0	8.0	5.0	3.5	2.5	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.1
91%	14.0	10.0	7.0	4.0	3.0	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.1	0.1
90%	13.0	9.0	6.0	4.0	3.0	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.1	0.1
85%	10.0	8.0	4.0	3.0	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1
80%	7.0	4.0	3.0	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1
70%	4.0	3.0	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
60%	3.0	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
50%	3.0	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
40%	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
30%	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
20%	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
10%	4.0	3.0	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1
0	38.0	28.0	19.0	13.0	9.0	6.0	4.5	3.0	2.0	1.5	1.0	0.8	0.6	0.4	0.3	0.2
TEMP	32°	40°	50°	60°	70°	80°	90°	100°								

Since methods and conditions of application and use are beyond our control, our warranties of FITNESS and MERCHANTABILITY, and any other warranties, express or implied, made in connection with the sale of these products, SHALL NOT BE EFFECTIVE OR ACTIONABLE UNLESS the products and systems are applied according to our current printed directions and specifications.

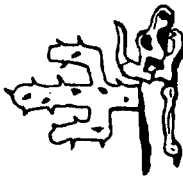
UNITED STATES GYPSUM
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Rp. E-3-1

...when you follow a few easy rules.

Weather—hot, wet or cold—affects performance and working qualities of joint treatment compounds. Each type of weather produces unique reactions within compounds. Hot, dry weather hastens drying, accelerates aging. Wet weather slows drying and may trap the unwary, who rely on appearance to judge joint dryness. Cold weather slows mixing, brings with it the hazard of freezing. Any of these reactions can result in costly and serious problems unless preventive measures are taken. Is prevention difficult? Not at all—it amounts to nothing more than the good-sense practices that conscientious applicators follow every day. For example:



When weather is hot and dry...

DO—close doors and windows to eliminate drafts. Then raise humidity by generously sprinkling subfloors with water or by placing open cans of water about the job.

DO—work shorter joint lengths in order to finish each section before the compound becomes unworkably dry.

DO—keep inner walls of buckets and other containers, above the compound level, wiped clean to prevent crusting. Dislodged pieces of crusted compound will contaminate the fresh mix.

DO—use DURABOND® Joint Compound-Taping or, better still, DURABOND 90 Joint Compound-Multi-Purpose when accelerated drying is difficult to prevent. The extremely short hardening time of DURABOND 90 helps minimize the effect of too-fast drying conditions.

DO—use DURABOND tape embedding compounds or USG® Ready Mixed Joint Compound-All Purpose. All have high resistance to edge cracking caused by hot, dry weather.

DO—use USG Ready Mixed Compound if the slightly harder finish of powdered compounds makes hot weather sanding difficult.

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DO—rotate stocks of both powdered and ready-mixed compounds. First-in, first-out stock rotation avoids problems caused if hot weather accelerates aging.

DON'T—add excess water to compound to extend their working time. The practice increases shrinkage.

DON'T—allow extremely rapid air movements over wet joints—especially if a thin-consistency mix is applied. This combination is a major cause of check and edge cracking.

DON'T—use casein compounds mixed long before needed if their odor suggests spoilage. The odor will persist even after the joint is dry and is guaranteed to provoke complaints.

DON'T—allow bags of powdered compounds to lie exposed to full sunlight for extended periods. Such exposure may be harmful, particularly to topping compounds.

DON'T—be misled to believe that the superior packaging of USG ready-mixed compounds will substitute for proper weather protection. Finest performance is assured by providing covered storage for these materials.



When weather is wet and humid...

DO—allow each coat of compound to dry thoroughly before applying subsequent coats. DON'T rely on visual inspection to check joint dryness—refer to the chart on page 6 for specific drying rates.

DO—choose DURABOND Joint Compound-Taping or DURABOND 90—especially during cold, wet weather. Their rates of hardening are virtually unchanged by high humidity or humidity variations.

DON'T—store tape and powder compounds in damp areas. Working qualities of both are seriously affected by dampness. Tape has an affinity for moisture and damp tape is a major cause of center humping and edge wrinkling.

When winter winds blow...

DO—allow extra soaking time (after mixing) for casein-based joint compounds. Their binders dissolve slowly. Most casein-based compounds must stand at least 30 min., even in warm weather. When their mixed temperature is between 55° and 60°F., binders need at least 30 to 45 minutes soak to completely break down—up to 1½ hours if temperature is between 40° and 45°F. Look for the warning signals. Undissolved compounds work heavy and dry, tend to curl up behind the knife; often have a "salt and pepper" appearance after application.

DO—provide heat. Maintain a minimum 55°F. throughout wallboard erection, taping, finishing and until final decoration dries. Avoid temperature fluctuations of more than 15°. Use central heating plants whenever possible—unvented temporary heaters may produce staining fumes.

DO—raise temperature of powdered compounds to 70°F. just prior to mixing, and use warm water for finest results.

DO—provide ventilation. Open windows slightly in various locations. Uneven drying can cause bond failure and delayed shrinkage.

DO—mix compounds (except DURABOND tape embedding compounds) the night before using for best results.

DO—plan work to allow sufficient drying time between coats and before decorating begins.

Under adverse weather conditions, more than 48 hrs. drying time may be needed between coats. Finishing over base coats whose surfaces appear dry, but are wet underneath, is the principal cause of delayed shrinkage and joint discoloration.

DO—protect USG Ready Mixed Joint Compound-All Purpose from freezing. If it does freeze, thaw at room temperature. Never force thawing.

DO—use DURABOND tape embedding compounds for an extra margin of safety if minimum 55° temperature cannot be maintained after application. These quick-hardening formulations work well under weather conditions which cause failure with conventional compounds.

DON'T—allow any compound to freeze on the wall. The materials lose most of their bond strength after freezing and must be replaced.

DON'T—add water just to speed mixing. Excess water causes "sloughing off" as the mix stands in the pail.

How to get best results in every kind of weather...

DO—mix casein-based compounds to a heavy consistency. Add necessary additional water after soaking to achieve required consistency.

DO—add powdered compounds to water when mixing—not water to powder. And sift compounds while pouring.

DO—apply compounds of heavy consistency over nail and screw heads.

DO—keep tools and mixing containers clean at all times. Always use clean water for mixing

DO—apply 3 coats for finest results.

DO—apply relatively thin coats in angles to prevent corner cracking.

DO—minimize fill coat craters by applying the finish coat with firm pressure and with tool held at 45°.

DO—fill open joints (¼" or wider) 24 hrs. before taping with conventional compounds, or fill with DURABOND 90 Compound and tape immediately.

DO—use joint treatment compounds manufactured by United States Gypsum when material cost is a major factor yet high quality standards must be maintained.

DO—exercise special care when using DURABOND tape embedding compounds for mechanical application. Tool cleanup and careful work scheduling are especially important.

DO—choose DURABOND Compounds when time is short and schedules are critical.

DO—CHOOSE DURABOND 90 AND SHEETROCK® SW GYPSUM WALLBOARD FOR THE STRONGEST JOINTS, THE SMOOTHEST WALLS AND CEILINGS.

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