

ProForm® All Purpose Machine Grade Joint Compound

09 29 00 / NGC

Technical Information
800.NATIONAL • 800.628.4662

DESCRIPTION

ProForm® All Purpose Machine Grade Joint Compound is a pre-mixed vinyl base ready mix joint compound that may be used directly from the container.

Designed specifically for the professional, it can be used in mechanical taping and finishing tools.

BASIC USES

Applications

Use for taping, finishing joints, spotting fasteners, skimming and textures, and repairing cracks in plaster walls.

Advantages

- Applies easily and provides excellent bond.
- Stays strong – highly durable surface.
- Lessens pocking and pinholing.
- Works great for first phases of finishing.
- Formulated for optimum performance when used with automatic taping and finishing tools.
- Mold resistant.

INSTALLATION RECOMMENDATIONS

To ensure the best results, use only products from ProForm Finishing Products together in your construction systems. We do not recommend mixing our products with other brands. All ProForm joint compounds are formulated without asbestos and therefore comply with Consumer Product Safety Standards.

General

Install All Purpose Machine Grade Joint Compound according to the methods described in "Applicable Standards and References" and as indicated in this section. Mix thoroughly before using or thinning. If thinner consistency is desired, add clean, drinkable water in 4 to 8 oz. increments not to exceed gallon weight and remix. Excess water may cause product failure. Do not mix with other joint compounds (wet or dry) or other materials.

Use directly from the container for treating fasteners and cornerbeads or for taping and finishing joints. Apply a uniformly thin layer of joint compound over the joint approximately 4" (102 mm) wide. Then center the tape over the joint and embed into the compound, leaving sufficient joint compound under the tape to provide a proper bond. Cover the tape with a thin coat of compound to minimize wrinkling or curling.

Reinforce ceiling, wall angles and inside corner angles with the tape folded to conform to the angle and embedded into the compound. Once the compound is thoroughly dry (approximately 24 hours), cover the joint tape with a coat of all-purpose joint compound or topping



compound spread approximately 3" (76.2 mm) on each side and feathered out at the edges. After this coat is thoroughly dry, apply another coat of all-purpose joint compound or topping compound with a slight, uniform crown over the joint. This coat should be smooth and the edges feathered approximately 3" (76.2 mm) beyond the preceding coat. Coat all inside corners with at least two coats of compound with the edges feathered out.

Apply three coats of compound to all nail or screw head dimples. Apply these coats as applying each coat to the joints. Conceal flanges of gypsum board cornerbead by at least two coats of compound. The first coat should be all-purpose compound. The second coat can be all-purpose or topping compound feathered out approximately 9 in. (229 mm) on both sides of the exposed metal nose.

In cold weather (outside temperature below 50°F or 10°C), maintain temperatures within the building at a minimum of 50°F (10°C), day and night, during joint finishing. Provide adequate ventilation to eliminate excess moisture. Wet or damp conditions will slow the drying process. Subsequently, 24 hours drying time between coats may not be sufficient. Adequate drying time is essential to prevent unwanted conditions, such as cracks, from delayed shrinkage.

Decoration

Before applying paint, wall covering or other decorating materials, all areas must be thoroughly dry and dust free and treated with a coat of good-quality, high solids, flat latex primer.

Selection of a paint to provide desired finish characteristics is the responsibility of the architect or contractor.

Refer to the Gypsum Association, GA-214, *Levels of Finish for Gypsum Panel Products*, to determine the level of finishing needed to assure a surface properly prepared to accept the desired decoration.

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Job Name _____

Contractor _____ Date _____

Submittal Approvals: (Stamps or Signatures)

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TECHNICAL DATA

Physical Properties

Packaging **Pail:** 61.7 lbs. (28 kg)*

*Pail contains 30% post-consumer recycled (PCR) plastic.

Approximate Drying Times

Relative Humidity	Temperature						
	32°	40°	50°	60°	70°	80°	100°
0%	38 hours	28 hours	19 hours	13 hours	9 hours	6 hours	3 hours
20%	2 days	34 hours	23 hours	16 hours	11 hours	8 hours	4 hours
40%	2.5 days	44 hours	29 hours	20 hours	14 hours	10 hours	5 hours
50%	3 days	2 days	36 hours	24 hours	17 hours	12 hours	6 hours
60%	3.5 days	2.5 days	42 hours	29 hours	20 hours	13.5 hours	8 hours
70%	4.5 days	3.5 days	2.25 days	38 hours	26 hours	19.5 hours	10 hours
80%	7 days	4.5 days	3.25 days	2.25 days	38 hours	27 hours	14 hours
90%	13 days	9 days	6 days	4.5 days	3 days	49 hours	26 hours
98%	53 days	37 days	26 days	18 days	12 days	9 days	5 days

The chart above is a helpful guide in determining the approximate drying times for joint compounds under a variety of humidity/temperature conditions. Shaded area is below the minimum application temperature requirement of 50°F (10°C) and is not recommended for the application of joint compound.

Materials Estimating and Coverage

Sq. Ft. of Wall/Ceiling	Gypsum Board Size			Joint Compound	Joint Tape/Ft.	Nails/Ct.
	4'x8'	4'x10'	4'x12'			
100	4	3	3	12-14 lbs. / 1.0 gal.	35	168
200	7	5	5	25-28 lbs. / 1.8 gal.	70	294
300	10	8	7	37-42 lbs. / 2.7 gal.	105	420
400	13	10	9	49-56 lbs. / 3.6 gal.	140	546
500	16	13	11	62-70 lbs. / 4.5 gal.	175	672
600	19	15	13	73-84 lbs. / 5.4 gal.	210	798
700	22	18	15	86-98 lbs. / 6.3 gal.	245	924
800	25	20	17	98-112 lbs. / 7.2 gal.	280	1,050
900	29	23	19	110-126 lbs. / 8.1 gal.	315	1,218
1,000	32	25	21	123-140 lbs. / 9.0 gal.	350	1,344
1,100	35	28	23	135-154 lbs. / 9.9 gal.	385	1,470
1,200	38	30	25	148-168 lbs. / 10.8 gal.	420	1,596
1,300	41	33	28	160-182 lbs. / 11.7 gal.	455	1,722
1,400	44	35	30	172-196 lbs. / 12.6 gal.	490	1,848
1,500	47	38	32	184-210 lbs. / 13.5 gal.	525	1,974

Applicable Standards and References

ASTM C475 Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board

ASTM C840 Standard Specification for Application and Finishing of Gypsum Board

ASTM E119 Standard Test Methods for Fire Tests of Building Construction and Materials

Gypsum Association, GA-214, Levels of Finish for Gypsum Panel Products

Gypsum Association, GA-216, Application and Finishing of Gypsum Panel Products

ProForm Finishing Products, LLC Manufacturer Standards, NGC Construction Guide

ProForm Finishing Products, LLC, ProForm® Finishing Products Construction Guide

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Sustainable Designs

Achieves UL GREENGUARD Certification for low chemical emissions into indoor air during product usage. For more information, visit:

ul.com/gg.

Qualifies as a low-VOC emitting material by meeting California Specification 01350.

LIMITATIONS

Storage

- Shelf life up to 9 months under good storage conditions (see production code date).
- Maintain temperature at a minimum 50°F (10°C) and protect container from exposure to extreme heat and sunlight to prevent spoilage and freezing.

Frozen Ready Mix

- Allow material to thaw at room temperature for at least 24 hours.
- Once thawed, turn the container upside-down for at least 15 minutes.
- Turn pail right side up, remove lid and immediately remix with an electric drill.
- Ready mix should be lump free and ready to use within 1 minute.
- Discard all ready mix that does not remix to a lump-free consistency.

Stacking

Do not stack ready mix pails or cartons more than two pallets in height.

General

- Do not overthin ready mix.
- Do not overmix with an electric drill. This can cause undesirable changes in viscosity and in the finished surface appearance.

HANDLING AND PROJECT CONDITIONS

Environmental Conditions

Varying weather conditions can impact both the quality and appearance of taped gypsum board joints. Relative humidity, plus temperature, will affect the working characteristics of all joint compounds.

Minimize the potential for finishing and decorating problems when temperature, humidity and airflow remain constant and as close to occupancy environmental conditions as possible. Continuously maintain a minimum temperature of 50°F (10°C) for 48 hours prior to and throughout the finishing process until applied materials are thoroughly dry.

For example, cool, wet weather will slow down the drying process while hot, dry weather hastens the drying process. Exposure to winds, breezes or drafts while drying can also affect the performance of joint compounds. Typical problems from improper drying can be cracking, excessive shrinkage, ridging and beading, banding or bond failure. A further explanation of these conditions is outlined in the "Problems and Solutions" section of the *ProForm® Finishing Products Construction Guide*.

Always take proper precautions at the jobsite to minimize the adverse effects of weather on drying. These precautions will ultimately reduce the application time and expense from callbacks and rework.

Planning And Prevention: Mold And Mildew Resistance

Planning and prevention is the most effective way to avert the growth of mold or mildew. Deliver gypsum board and finishing products to a jobsite as near to the time they will be used as possible. Once delivered to a jobsite, place gypsum board under cover immediately and properly protect it. Do not expose it to outside elements, such as rain, snow or other high moisture conditions. If building materials get wet from any moisture source, identify and correct that source. If mold or mildew growth occurs, or if you suspect it might occur due to environmental conditions and moisture, either attempt to dry and clean the affected areas or replace the affected materials. If you do not have the training or experience to recognize and to make the proper decisions about repair or removal, consult a professional. A proper evaluation must be made.

No material can be considered "mold-proof," nor is it certain that any material will resist mold or mildew indefinitely. When used in conjunction with good design, handling and construction practices, ProForm joint compound can provide increased mold resistance. As with any building material, avoid water exposure during handling, storage, installation and after installation is complete. This is the best way to avoid the formation of mold or mildew.

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FOR MORE INFORMATION

Architectural Specifications

ProForm Finishing Products CSI MasterFormat®
3-part guide specifications are downloadable as editable
Microsoft® Word documents at: proformfinishing.com.

Latest Technical Information and Update

Visit proformfinishing.com or call National Gypsum Company
Construction Services: 1-800-NATIONAL (628-4662).

Technical Information Información Técnica

1-800-NATIONAL®
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products manufactured by ProForm Finishing Products, LLC.

The ProForm family of products is manufactured by
ProForm Finishing Products, LLC.



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