



ARDEX FL™

Rapid-Set, Flexible, Sanded Grout

A revolutionary creamy consistency...significantly reduces installation time

Rapid set - open to traffic in just 90 minutes

Excellent color consistency

Use for grout joints from 1/16" to 1/2" (1.5 mm to 12.7 mm)

Use with porcelain, glass, quarry, ceramic and most natural stone (moisture insensitive) tiles

Ideal for commercial and residential applications including swimming pools, showers, including steam showers, and kitchens

No slake time needed

Stain resistant, water repellent and highly flexible

No sealer required

Use for exterior applications and interior floors, walls and countertops

Easy to mix and apply - just add water

Available in 36 colors



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Rapid-Set, Flexible, Sanded Grout

Suitable Applications

- Grout Joint Size: 1/16" Up to 1/2" (1.5 mm to 12.7 mm)
- Interior or Exterior
- Dry or damp substrates (no standing water)
- Interior areas dry or intermittently wet, such as shower floors and walls
- Pools and other submerged areas that are properly balanced in accordance with pool industry standards; not saltwater pools
- Not for high chemical resistance or specialized applications
- Use with most common tile types: Not for moisture-sensitive tile and stone

Jobsite Conditions

During installation and cure, substrate and ambient temperatures must be a minimum of 50° F / 10°C (Maximum 85° F / 29°C). If installing over an in-floor heating system, turn the heating system off 48 hours before, during and at least 48 hours after completion of the installation.

Step 1: Proper Prep™

The existing tiles / stone must be set firmly. Tile joints must be clean and free of all setting materials, dust, moisture and foreign matter. Clean the tile surface to remove contaminants that may discolor the grout.

Highly absorbent, textured or porous tiles may require sealing or treating with a grout release before grouting to prevent permanent staining

Grout joints must be clean and free of standing water, dust, dirt and foreign matter. Remove all tile spacers. Remove excess adhesive or mortar from the joint area so that 2/3 of the tile depth is available for grouting.

Following preparation, thoroughly vacuum to remove all excess dirt and debris.

Handle and dispose of asbestos and other hazardous materials in accordance with prevailing regulations, which supersede the recommendations in this document.

Step 2: Mixing and Application

Recommended Tools

Mixing Paddle; Mixing Container; 1/2" (12 mm) heavy-duty drill (min. 650 rpm); appropriate measuring bucket; High-quality rubber float; ARDEX sponge (or similar); white Scotch-Brite pad

Safety and OSHA Compliance

Handle each bag with care, emptying it in a manner that avoids creating a plume of dust. While mixing, use a standard "gutter hook" vacuum attachment in combination with a heavy-duty, bucket-style vacuum (Shop-Vac or similar) and HEPA dust extraction vacuum system.

Application Data

All dry times are calculated at 70°F (21°C). Drying time is a function of jobsite temperature and humidity conditions. Low substrate temperatures and/or high ambient humidity will extend the drying time. Adequate ventilation and heat will aid drying.

Water Ratio:	2 1/4 - 2 1/2 quarts (2.1 - 2.3 L) clean water Per 25 lb (11.3 kg) bag; 28 - 32 fl. oz. (0.8 - 0.9 L) of clean water Per 10 lb (4.5 kg) bag; 4 parts powder: 1 part clean water by volume (small batches)
Pot life / Working Time:	Approximate 30 minutes
Time to Firm Set:	Approximate 30 - 45 minutes
Minimum Time to Traffic:	90 minutes
Minimum Time to Water Submersion:	72 hours

Color Variance

Actual grout color may vary when dry, depending on installation conditions, substrate, type of tile installed and other factors. To minimize the possibility of color variance between units of the same color used on the same installation, mix all grout using the same amount of water.

Mixing

Pour the water in the mixing container first, and then add powder while mixing. Start with the lowest amount of water specified above. Gradually add additional water as needed to achieve the desired consistency. Do not exceed the highest amount of water specified above. To obtain a stiffer grout consistency, use slightly less water.

NOTE: Less water may cause the material to set faster.

For best results with full-unit batches, mix with the mixing paddle and a 1/2" (12 mm) heavy-duty drill (min. 650 rpm). Mix at a low speed until a creamy, smooth, lump-free consistency is achieved.

Small batches may be mixed by hand. Use a margin trowel, and mix vigorously. Just prior to application on the substrate, the mixture should be stirred again to ensure a creamy, smooth, lump-free consistency.

Mix only as much as can be applied within working time specified above.

Jobsite conditions and temperature may affect pot life. If the material begins to harden within published pot life, retemper with a drill and mixing paddle.

Application

Installation should proceed in accordance with ANSI A 108.10.

Some types of tiles may be prone to scratching and surface discoloration when using grout. In accordance with industry standards, and to determine the suitability of the products for the intended use, always install an adequate number of properly located test areas.

Using a high-quality rubber float, work the grout into the joints until they are filled completely.

As work proceeds, remove all excess grout from the face of the tile using the rubber float, working at a 45° angle to avoid removing grout from joints.

Joint Forming and Tile Cleanup

Once the grout has taken a firm set in the joints (see firm set time above): The joints can be formed, and the residual grout on the face of the tile can be removed easily by using a lightly dampened sponge. Do not use excessive water.

Any dry film (haze) remaining on the tile surface can be removed easily by finishing or polishing with a dry or slightly damp terrycloth towel or sponge after the grout has hardened completely in the joints.

In extremely warm conditions where the residual grout is left on the tile for too long to re-emulsify, the residual grout can be loosened using a white Scotch-Brite pad. Apply gentle pressure to the pad, and work in a circular motion to loosen the grout. Carefully remove the slurry with a barely damp sponge, rinsing the sponge with clean water after each pass.

Sealing

While not required, a penetrating grout sealer can be applied. Follow sealer manufacturer's recommendations for preparation, application and cure.

Important Maintenance Notes

Although this product will resist staining and clean more easily than virtually all other cement-based grouts, it is not stain-proof and should be cleaned using neutral pH cleaners and maintained regularly to keep the installation looking its best. On-site test areas of the selected cleaner should be completed to ensure compatibility.

Prolonged use of steam cleaners and/or power washers is not recommended.

Notes

Intended for use by professional contractors who are trained in the application of this product and/or similar products. Not sold by ARDEX through home improvement centers. For information on ARDEX Academy trainings, visit: www.ardexamericas.com.

Never mix with cement or additives outside of our written recommendations. In accordance with industry standards, and to determine the suitability of the products for the intended use, always install an adequate number of properly located test areas. If the installation is not proceeding as expected Contact the ARDEX Technical Service Department before proceeding further.

Observe the basic rules of concrete work, including the minimum surface and air temperatures detailed above. Install quickly if the substrate is warm, and follow the warm weather installation guidelines available on our website. Observe the basic rules of tile work.

Dispose of packaging and residue in accordance with prevailing regulations. Do not flush material down drains. Do not reuse packaging.

For high chemical resistance and specialized applications, please refer to the ARDEX WA technical data sheet.

Technical Data According to Manufacturer Quality Standards

All data based on a partial, in-lab mix. Mixing and Testing completed at 70°F / 21°C. Physical properties are typical values and not specifications.

Brinell Hardness:	28 days: 8,700 psi (611.6 kg/cm ² ; 60 MPa) 7 days: 8,000 psi (562.4 kg/cm ² ; 55.2 MPa) 3 days: 6,500 psi (457 kg/cm ² ; 44.9 MPa) 1 days: 5,000 psi (351.5 kg/cm ² ; 34.5 MPa)
Packaging:	25 lb. (11.3 kg) bag 10 lb (4.5 kg) box
Storage:	Store in a cool, dry area. Do not leave units exposed to sun. Protect unused material by removing air from container and sealing tightly.
Shelf Life:	12 months, if unopened and properly stored
Warranty:	ARDEX Standard Limited Warranty applies. Also eligible for ARDEX Tile and Stone SystemOne™ Warranty When used as a system. For full warranty details: ardexamericas.com/services/warranties .

Precautions

Carefully read and follow all precautions and warnings on the product label. For complete safety information, please refer to the Safety Data Sheet (SDS) available at:

www.ardexamericas.com.

Made in the USA.

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Latest version available at:

www.ardexamericas.com.

Coverage

Per 25 lb. (11.3 kg) bag. Actual coverage may vary based on jobsite conditions, tile textures and installation methods.

Tile Size (inches)			Grout Joint Size (inches)							
Width	Length	Thickness	1/16	1/8	3/16	1/4	5/16	3/8	7/16	1/2
			0.0625	0.125	0.188	0.25	0.313	0.375	0.438	0.5
1	1	1/4	97.3	50.3	34.6	26.9	21.1	18.3	16.3	14.9
2	2	1/4	191.4	97.3	65.7	50.3	38.6	32.8	28.6	25.5
2	2	3/8	127.6	64.8	43.8	33.5	25.7	21.9	19.0	17.0
4 1/4	4 1/4	5/16	322.2	162.3	108.7	82.4	62.7	52.7	45.5	40.2
4	8	1/2	252.6	127.0	84.9	64.2	48.7	40.9	35.2	31.0
6	6	1/2	284.1	142.8	95.5	72.2	54.8	46.0	39.6	34.9
8	8	3/8	504.5	253.2	169.0	127.6	96.8	81.1	69.7	61.3
12	12	3/8	755.7	378.9	252.6	190.4	144.2	120.7	103.6	91.0
13	13	3/8	818.6	410.3	273.5	206.1	156.1	130.6	112.1	98.4
16	16	3/8	1007.0	504.5	336.1	253.2	191.7	160.3	137.5	120.7
18	18	3/8	1132.6	567.3	377.9	284.6	215.4	180.1	154.5	135.5
24	24	3/8	1509.5	755.7	503.2	378.9	286.6	239.5	205.3	180.1

Tile Size (mm)			Grout Joint Size (mm)							
Width	Length	Thickness	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0
25	25	6	9.0	4.7	3.2	2.5	2.1	1.8	1.6	1.4
51	51	6	17.8	9.0	6.1	4.7	3.8	3.2	2.8	2.5
51	51	10	11.9	6.0	4.1	3.1	2.5	2.1	1.9	1.7
108	108	8	29.9	15.1	10.1	7.6	6.2	5.2	4.5	3.9
102	203	13	23.5	11.8	7.9	6.0	4.8	4.0	3.5	3.0
152	152	13	26.4	13.3	8.9	6.7	5.4	4.5	3.9	3.4
203	203	10	46.9	23.5	15.8	11.9	9.5	8.0	6.9	6.0
305	305	10	70.3	35.2	23.5	17.7	14.2	11.9	10.2	8.9
330	330	10	76.1	38.1	25.5	19.2	15.4	12.8	11.0	9.7
406	406	10	93.6	46.9	31.3	23.5	18.9	15.8	13.5	11.9
457	457	10	105.3	52.7	35.2	26.5	21.2	17.7	15.2	13.3
610	610	10	140.4	70.3	46.9	35.2	28.2	23.5	20.2	17.7

Visit www.youtube.com/ARDEX101 to watch ARDEX product demonstration videos. For recommended installation tools, visit DTA USA at www.dtausagroup.com. For easy-to-use ARDEX Product Calculators and Product Information On the Go, download the ARDEX App.



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