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# ARDEX FL<sup>TM</sup>

## Rapid Set, Flexible, Sanded Grout

**A Revolutionary New Consistency...Significantly Reduces Installation Time**

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**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 mosaic tile as well as most natural stone tiles\***

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

**No slake time needed**

**Stain resistant, water repellent and highly flexible**

**No sealer required**

**Use for interior or exterior applications - floors, walls, countertops**

**Easy to mix and apply - just add water**

**Available in 35 colors - see ARDEX Grout Color Chart**



**SystemOne<sup>TM</sup>**

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# ARDEX FL™

## Rapid Set, Flexible, Sanded Grout

### Description and Usage

ARDEX FL™ Rapid Set, Flexible, Sanded Grout is a high-performance, Portland cement-based, polymer-modified grout that provides a smooth finish for floor and wall tile joints 1/16" to 1/2" (1.5 mm to 12.7 mm) wide on installations of porcelain, glass, quarry, ceramic, mosaic, and most natural stone tiles.\* Freeze/thaw resistant, stain-resistant, water repellent and naturally resistant to mold and mildew formation, ARDEX FL also is fast setting and can be open to traffic in just 90 minutes. With excellent flexibility and high bonding power, ARDEX FL is ideal for interior and exterior floor, wall and countertop applications, as well as for use in swimming pools with pH-balanced water.

### Preparation

The existing tile must be set firmly. The 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.

Expansion joints must be provided over existing moving joints and cracks and where substrate materials change composition or direction per ANSI A108 AN-3.7.

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

### Recommended Tools

ARDEX mixing bucket, rubber float, ARDEX T-2 Ring Mixing Paddle, 1/2" (12 mm) heavy-duty drill (min. 650 rpm), ARDEX sponge (or similar) and white Scotch-Brite® pad.

### Mixing and Application

Mix each 25 lb. (11.3 kg) bag of ARDEX FL with 2 1/4 - 2 1/2 qt. (2.1 - 2.3 L) of clean water.

Mix each 10 lb. (4.5 kg) box of ARDEX FL with 28 - 32 oz. (0.8 - 0.9 L) of clean water.

To mix smaller quantities by hand, use 4 parts of powder to 1 part of clean water by volume.

Starting with the lowest amount of water specified above, pour the water in the mixing container first, and then add the ARDEX FL. 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 when mixing full batches, mix with an ARDEX T-2 Ring Mixing Paddle and 1/2" heavy-duty drill. Mix at a low speed until a creamy, smooth, lump-free consistency is obtained.

When mixing small batches, use a margin trowel, and mix vigorously for 2 to 3 minutes. Just prior to application on the substrate, the mixture should be stirred again to ensure a creamy, smooth, lump-free consistency.

Installation should proceed in accordance with ANSI A108.10. Using a high quality rubber float, work the grout into the joints until they are filled completely. ARDEX FL has a working time of approximately 30 minutes at 70°F (21°C). Mix only as much as can be applied within this time.

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

Once the grout has taken a firm set in the joints (**approximately 35-40 minutes, 70°F / 21°C**), the joints can be formed, and the residual grout on the face of the tile can be removed easily by using a lightly dampened ARDEX 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 ARDEX 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 ARDEX sponge, rinsing the sponge with clean water after each pass.

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

Please note that ARDEX FL must set a minimum of 72 hours (70°F/21°C) prior to being submerged in water.



## Notes

FOR PROFESSIONAL USE ONLY.

At 70°F (21°C), the working time of ARDEX FL is roughly 30 minutes, and the pot life is approximately 30 minutes. Jobsite conditions and temperature may affect working time and pot life.

Please be advised that although this product will resist staining and clean more easily than virtually all other cement-based grouts, this material is not stain-proof and should be cleaned and maintained regularly to keep the installation looking its best.

ARDEX FL is intended for installation at material and surface temperatures between 50° and 85° F (10° to 29° C). Do not install below 50°F (10°C) surface and air temperatures. For warm weather installation instructions, please contact the ARDEX Technical Service Department.

For high chemical resistance and specialized applications, please refer to the ARDEX WA™ Epoxy Grout and Adhesive technical brochure.

\*ARDEX FL is not suitable for use with moisture sensitive stone.

Some types of tiles may be prone to scratching and surface discoloration when using grout. As always, ARDEX recommends the installation of test areas to confirm the suitability of the product for the intended use.

Never mix with cement or additives. Observe the basic rules of tile work.

Dispose of container and residue in accordance with federal, state and local waste disposal regulations. Do not flush material down drains.

## Precautions

Carefully read and follow all precautions and warnings on the product label. For complete safety information, please refer to the Material Safety Data Sheet (MSDS) available at [www.ardexamericas.com](http://www.ardexamericas.com).

## Technical Data According to ARDEX Quality Standards

All data based on a mixing ratio of 4 parts powder to 1 part water by volume at 70°F (21°C). Physical properties are typical values and not specifications.

<b>Mixing Ratio:</b>	2 1/4 - 2 1/2 qt. (2.1 - 2.3 L) of water to one 25 lb. (11.3 kg) bag. 28 - 32 oz. (0.8 - 0.9 L) of water to one 10 lb. (4.5 kg) box. For smaller batches, use 4 parts powder to 1 part water by volume.	
<b>Pot Life:</b>	Approx. 30 minutes	
<b>Working Time:</b>	Approx. 30 minutes	
<b>Open to Traffic:</b>	90 minutes	
<b>Brinell Hardness:</b>	<b>1 Day</b> 5,000 psi 351.5 kg/cm <sup>2</sup> 34.5 MPa	<b>3 Days</b> 6,500 psi 457 kg/cm <sup>2</sup> 44.9 MPa
	<b>7 Days</b> 8,000 psi 562.4 kg/cm <sup>2</sup> 55.2 MPa	<b>28 Days</b> 8,700 psi 611.6 kg/cm <sup>2</sup> 60 MPa
<b>VOC:</b>	0	
<b>Packaging:</b>	25 lb. (11.3 kg) net weight bag 10 lb. (4.5 kg) net weight box	
<b>Storage:</b>	Store in a cool dry area. Do not leave package exposed to sun.	
<b>Shelf Life:</b>	1 year, if unopened.	
<b>Warranty:</b>	ARDEX Engineered Cements Standard Limited Warranty applies. Also eligible for the ARDEX SystemOne™ Warranty when used in conjunction with select ARDEX tile & stone installation products.	

## Colors Available

Also refer to the ARDEX Grout Color Chart, available at your local ARDEX distributor.

Polar White 01  
 Fresh Lily 02  
 Sugar Cookie 03  
 Antique Ivory 04  
 Winter White 05  
 Classic Vanilla 06  
 Floating Driftwood 07  
 Vintage Linen 08  
 Natural Almond 09  
 Irish Crème 10  
 Barley 11  
 Wild Mushroom 12  
 Stone Beach 13  
 Chocolate Mousse 14  
 Gray Dusk 15  
 Ground Cocoa 16  
 Coffee Bean 17  
 Dove Gray 18  
 Silver Shimmer 19  
 Ocean Gray 20  
 Slate Gray 21  
 Cast Iron 22  
 Charcoal Dust 23  
 Black Licorice 24  
 Stormy Mist 25  
 Organic Earth 26  
 Azure Blue 27  
 Gentle Blush 28  
 Fresh Magnolia 29  
 Pink Champagne 30  
 Burnt Orange 31  
 Baked Terra Cotta 32  
 Asparagus 33  
 Summer Yellow 34  
 Brilliant White 35

ARDEX FL™ Rapid Set Flexible Sanded Grout Coverage Chart								
Grout Joint Size - Inches								
Tile Size	1/16" 0.0625	1/8" 0.125	3/16" 0.188	1/4" 0.25	5/16" 0.313	3/8" 0.375	7/16" 0.438	1/2" 0.5
1" x 1" x 1/4"	92.0	47.5	32.7	25.5	21.1	18.3	16.3	14.9
2" x 2" x 1/4"	181.1	92.0	62.2	47.5	38.6	32.8	28.6	25.5
2" x 2" x 3/8"	120.7	61.3	41.4	31.7	25.7	21.9	19.0	17.0
4-1/4" x 4-1/4" x 5/16"	304.7	153.5	102.8	77.9	62.7	52.7	45.5	40.2
4" x 8" x 1/2"	238.9	120.1	80.3	60.7	48.7	40.9	35.2	31.0
6" x 6" x 1/2"	268.7	135.1	90.3	68.3	54.8	46.0	39.6	34.9
8" x 8" x 3/8"	477.1	239.5	159.9	120.7	96.8	81.1	69.7	61.3
12" x 12" x 3/8"	714.8	358.3	238.9	180.1	144.2	120.7	103.6	91.0
13" x 13" x 3/8"	774.2	388.0	258.6	194.9	156.1	130.6	112.1	98.4
16" x 16" x 3/8"	952.4	477.1	317.9	239.5	191.7	160.3	137.5	120.7
18" x 18" x 3/8"	1071.2	536.5	357.4	269.2	215.4	180.1	154.5	135.5
24" x 24" x 3/8"	1427.6	714.8	475.9	358.3	286.6	239.5	205.3	180.1

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

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

## 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 bags of the same color used on the same installation, mix all grout using the same amount of water.

Made in the USA by ARDEX Engineered Cements, Aliquippa, PA 15001

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