



ARDEX TWP

Finishing Compound for Tilt-Up and Vertical Concrete Walls

Portland cement-based

**Use for filling and smoothing vertical concrete surfaces prior
to sealing or painting**

Easy to mix and apply

Hardens quickly without shrinking

**Use for interior and exterior vertical concrete or
masonry surfaces**

ARDEX ENGINEERED CEMENTS®
400 Ardex Park Drive
Aliquippa, PA 15001 USA
Tel: 724-203-5000
Fax: 724-203-5001
www.ardex.com

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Finishing Compound for Tilt-Up and Vertical Concrete Walls

Usage

Fill and smooth interior and exterior vertical concrete surfaces, such as tilt-up wall, pre-cast concrete panels or poured-in-place, or other concrete or masonry surfaces, prior to sealing or painting. Fill in surface defects such as spalls, gouges, cracks, dents, chips, bug holes, honeycombs – any type, size or shape of surface defect that needs to be filled and smoothed before coating.

Description

ARDEX TWP is a trowelable Portland cement-based finishing compound. When mixed with water, the result is a creamy, smooth, consistency for easy application. Tougher and more durable than traditional gypsum and latex patches, ARDEX TWP dries internally, permitting the finish coat of paint or sealer to be applied as soon as the surface is hard. Hardens quickly and dries fast without shrinking, cracking, or spalling.

Subfloor Preparation

All concrete surfaces must be structurally sound, solid, and free of any contaminant that might act as a bond breaker, including the removal of form release, existing sealers or paints, patching compounds, weak or loose areas, dust, dirt, or oils. If necessary, mechanically clean the surface down to sound, solid concrete by shot blasting, sandblasting, or grinding. Overwatered, frozen, or otherwise weak concrete surfaces must also be cleaned down to sound, solid concrete by mechanical methods. Acid etching, the use of adhesive removers or solvents, and sweeping compounds are not acceptable means of cleaning the substrate. The use of sanding equipment is not an effective method to remove curing and sealing compounds.

Surfaces must be dry for a successful installation. Surface temperatures must be a minimum of 50°F for the installation of ARDEX products. For further information, please refer to the ARDEX Substrate Preparation Brochure.

Recommended Tools

Mixing bucket, margin trowel, steel trowel, rubber float, sponge, mechanical mixing paddle, and a ½" heavy-duty drill (min. 650 rpm).

Mixing And Application

For each 10 lb. bag of ARDEX TWP, mix with 2½ quarts of water. The use of additional water will weaken ARDEX TWP and lower its durability. Put clean water in the mixing container first, and then add the ARDEX TWP. For best results, mix with a mechanical mixing paddle and ½" heavy-duty drill. Using mechanical mixing will produce a creamier and smoother consistency without the need for additional water. To mix smaller quantities by hand, use 2 parts by volume of powder to 1 part of water. Use a margin trowel and mix vigorously for 2-3 minutes. Mix thoroughly to obtain a lump-free consistency.

The pot life of ARDEX TWP is approximately 15-20 minutes at 70°F. If the product begins to set in the bucket, remix before using. Do not add more water.

After mixing, apply compound to prepared surface with a steel trowel. Apply sufficient pressure to fill in all surface defects. Where necessary, minor touch-up work can be accomplished using a rubber float or slightly dampened sponge once the surface has started to harden. If the material has already fully set, the surface can be smoothed with fine sandpaper or re-skimmed.

Thickness Of Installation

ARDEX TWP contains no sand or gritty fillers and can be placed to a true featheredge for perfectly smooth transitions. Use ARDEX TWP in small areas to fill in gouges, dents, or holes at any depth. Please note that thicker areas will take longer to harden.

Sealing And Painting

ARDEX TWP requires no special curing or drying procedures. Due to its unique formulation, the application of a latex paint or water-borne sealer can begin as soon as the surface has hardened – it does not need to be completely dry. Drying times and the hardening of the surface will vary with jobsite conditions, the type of substrate, and the thickness of installation. Smoothing over small voids may require only 15 minutes of drying time, while thicker applications, as well as those outdoors at cooler temperatures, may take an hour or more.

Notes

The pot life of ARDEX TWP is approximately 15-20 minutes at 70°F. Pot life will vary with ambient temperatures. As the porosity of cementitious surfaces varies, the use of a primer coat over the entire area (including patched and unpatched surfaces) before applying the finish coat of paint will provide a more uniform appearance. Consult the manufacturer of the sealer for their recommendations on the use of a primer.

As with any cementitious material, variations in color can occur as a function of jobsite conditions. If a monolithic appearance in color is required, it is recommended that an opaque sealer or paint be used.

ARDEX TWP is intended for interior or exterior applications that will receive a suitable coating of paint or sealer. Do not use for applications that will be left directly exposed to the weather. Do not install if rain or freezing temperatures are expected within 24 hours. Do not use in areas that will be subjected to standing water or permanent moisture such as retaining walls.

To preserve its freshness, ARDEX TWP powder must be protected from air while not in use. Protect unused material by removing the air from the bag and sealing tightly. Open and reseal as necessary.

Precautions

ARDEX TWP contains Portland cement. Avoid eye and skin contact. Mix in a well ventilated area and avoid breathing powder or dust. KEEP OUT OF REACH OF CHILDREN. Carefully read and follow all cautions and warnings on the product label.

Physiologically and ecologically friendly when set. Never mix with cement or additives other than Ardex approved products. Observe the basic rules of concrete work. Do not install below 50°F surface temperature. Install quickly if substrate is warm and follow hot weather instructions available from the ARDEX Technical Service Department.

Technical Data According To Ardex Quality Standards

(All data based on a mixing ratio of 2 parts powder to 1 part by volume of water at 70°F)

Mixing Ratio: 2½ quarts of water per one 10 lb. bag. For smaller batches, use 2 parts powder to 1 part water.

Material Requirements on Smooth Substrate (approx.):

33.3 sq. ft. per bag at ⅛";
16.6 sq. ft. per bag at ¼"
(When skimming over concrete, coverage is 100-150 sq. ft. per bag)

Open Time: Approx. 10 minutes

Working Time: 30 minutes

Pot Life: 15-20 minutes

Time to Paint or Seal: 15-60 minutes, depending on jobsite conditions

Packaging: 10 lb./4.5 kg net weight in paper bags

Storage: Store in a cool dry area. Do not expose bags to sun. Protect unused material by removing air from bag and sealing tightly.

Shelf Life: Six months

Warranty: Ardex Engineered Cements Standard Limited Warranty applies.

Limited Warranty

Ardex, L.P. warrants that if this product proves to have manufacturing defects and ARDEX is notified of such within six months from the date ARDEX shipped the product, ARDEX will replace the defective product f.o.b. factory. Such product replacement shall constitute the sole and exclusive remedy for any claim under this warranty. ARDEX does not authorize anyone, including ARDEX Representatives, to make any statements which supersede, modify or supplement the information provided on its printed literature or package labels without written confirmation from the Ardex Technical Service Department. Any installations proceeding without this confirmation, or misinstallations of the product, will void this warranty. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, IMPLIED, OR STATUTORY, AND IS STRICTLY LIMITED TO ITS TERMS. ARDEX MAKES NO WARRANTY OF MERCHANTABILITY OR SUITABILITY OF ITS PRODUCTS FOR ANY PARTICULAR PURPOSE. All product demonstrations are placed for illustrative purposes only and do not constitute a warranty of any kind. ARDEX SELLS ITS PRODUCTS UPON THE CONDITION THAT CUSTOMERS SHALL CONDUCT THEIR OWN TESTS TO DETERMINE THE SUITABILITY OF THE PRODUCTS FOR THE CUSTOMERS' INTENDED PURPOSES. UNDER NO CIRCUMSTANCES WILL ARDEX BE LIABLE FOR ECONOMIC, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OR LOSSES OF ANY KIND WHATSOEVER ARISING OUT OF OR OCCASIONED BY THE SELECTION, USE, INSTALLATION, OR REPLACEMENT OF THESE PRODUCTS.

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