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ARDEX TWP™

Tilt Wall Patch and Finishing Compound for Vertical Concrete Walls

Use for filling and smoothing interior and exterior
vertical concrete or masonry surfaces

Portland cement-based

Easy to mix and apply

Hardens quickly without shrinking

ARDEX Engineered Cements
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ARDEX TWP™

Tilt Wall Patch and Finishing Compound for Vertical Conc

Description and Usage

ARDEX TWP™ is a trowelable Portland cement-based finishing compound used to fill and smooth interior and exterior vertical concrete surfaces such as tilt-up walls, pre-cast or poured in place concrete panels, and other concrete or masonry surfaces prior to sealing or painting. When mixed with water, it renders a creamy, smooth consistency ideal for filling in surface defects such as spalls, gouges, cracks, dents, chips, bug holes or honeycombs – any type, size or shape of surface defect that needs to be filled and smoothed before coating. ARDEX TWP hardens quickly and dries fast without shrinking, cracking or spalling. It is tougher and more durable than traditional gypsum and latex patches, and because it dries internally, it can be sealed or painted as soon as the surface is hard.

Substrate 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 sandblasting or grinding. Overwatered, frozen or otherwise weak concrete surfaces must also be cleaned down to sound, solid concrete by mechanical methods. Acid etching, adhesive removers, solvents and sweeping compounds are not acceptable means of cleaning the substrate. Sanding equipment is not an effective method for removing curing and sealing compounds. Surfaces must be dry for a successful installation. Surface and air temperatures must be a minimum of 50°F (10°C) 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, ARDEX T-2 Ring Mixing Paddle and a 1/2" heavy-duty drill (min. 650 rpm).

Mixing And Application

Mix each 10 lb bag of ARDEX TWP with 2 1/2 quarts (2.4 l) of clean water. **Do not overwater!** The use of additional water will weaken ARDEX TWP and lower its durability. Pour the water in the mixing container first, and then add the ARDEX TWP. For best results, mix with an ARDEX T-2 mixing paddle and 1/2" heavy-duty drill. Using mechanical mixing will produce a creamier, smoother consistency without the need for additional water. For smaller quantities, use 2 parts of powder to 1 part water by volume. Use a margin trowel and mix vigorously for 2 to 3 minutes. Mix thoroughly to obtain a lump-free consistency.

The pot life of ARDEX TWP is approximately 15 to 20 minutes at 70°F (21°C). If the product begins to set in the bucket, remix before using. **Do not add more water.**

After mixing, apply the compound to the 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 of 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 time and the time until the surface hardens will vary with jobsite conditions, the type of substrate and the thickness of installation. For example 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.

ARDEX TWP is formulated from Portland cement and is gray when dry. As concrete color and jobsite conditions vary widely, it is not intended that this product will match the color of the concrete being resurfaced or an adjacent concrete pad. Jobsite conditions such as direct sunlight, wind or exposure to moisture before completely set can lead to color variations. If this is undesirable, a pigmented sealer such as ARDEX CG™ Concrete Guard™ (gray or pigmented tintable base) should be used. Consult the ARDEX Technical Service Department for additional information.

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Notes

The pot life of ARDEX TWP is approximately 15 to 20 minutes at 70°F (21°C). Pot life will vary with ambient temperatures.

Always install an adequate number of properly located test areas, including the sealer, to determine the suitability and aesthetic value of the products for the intended use. As the porosity of cementitious surfaces varies, the use of a primer coat over the entire area (including patched and non-patched 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.

ARDEX TWP is intended for interior or exterior vertical applications that will receive a suitable coating of sealer or paint. 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.

Never mix with cement or additives other than ARDEX approved products. Observe the basic rules of concrete work. Do not install below 50°F (10°C) surface and ambient temperatures. Install quickly if the substrate is warm, and follow warm weather instructions available from the ARDEX Technical Service Department.

To preserve its freshness, ARDEX TWP 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. For complete safety information, please refer to the Material Safety Data Sheet or visit our website at www.ardex.com.

Technical Data According to ARDEX Quality Standards

All data based on a mixing ratio of 2 parts powder to 1 part water by volume at 70°F (21°C)

Mixing Ratio:	2 1/2 quarts of water per 10 lb bag. For smaller batches, use 2 parts powder to 1 part water by volume
Material Requirements: on Smooth Substrate (approx.)	100 to 150 sq. ft. per bag at a skim coat 33.3 sq. ft. per bag at 1/8" 16.6 sq. ft. per bag at 1/4"
Pot Life:	15 to 20 minutes
Time to Seal or Paint:	15 to 60 minutes, depending on jobsite conditions
VOC:	0 g/L, calculated SCAQMD 1168
Packaging:	10 lb/4.5 kg net weight
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:	9 months unopened.
Warranty:	ARDEX Engineered Cements Standard Limited Warranty applies.

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AT122 (04/13)

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