



ARDEX ABAPOXY

High Performance Epoxy Adhesive and Grout

Use where strict hygiene standards, high chemical and physical resistance are required

Solvent free, environmentally friendly

For joints from 1.5mm to 15mm with fine grade and 3mm to 15mm with coarse grade

Available in fine and coarse grade, offer versatility to match finishing and application requirements

Suitable for wall and floor applications

Adjustable viscosity to suit application conditions

Water wash up, easier than other epoxy grouts

Ideal for wet areas including swimming and hydrotherapy pools

For internal and external applications

Low VOC content



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ARDEX ABAPOXY

High Performance Epoxy Adhesive and Grout

DESCRIPTION

ARDEX Abapoxy is a high performance epoxy grout designed for situations that require strict standards of hygiene, high chemical and physical resistance. ARDEX Abapoxy is available in two grades, fine grade for a superior finish and coarse grade for optimal clean up during application. It can be used in joints up to 15mm wide on walls and floors.

FOR GROUTING (TILE TYPES)

All ceramic tiles, porcelain and natural stone

Note: porous, moisture sensitive and textured tiles may require special application procedures, contact ARDEX Technical Services.

PREPARATION

Ensure joints are clean and free from dust, excess adhesive and bedding mortar. Do not grout until the adhesive has set firmly. All 'spacers' must be removed from joints. Joint must be dry before grouting and free from permanent dampness.

Prior to grouting, it is advisable to check ease of cleaning with tiles that have a textured or matt surface.

MIXING RATIO

ARDEX Abapoxy should be mixed to the ratios below:

	Fine	Coarse
Part A Compound	2 parts/1L	2 parts/1L
Part B Hardener	1 part/500ml	1 part/500ml
Part C Filler	8-10 parts/5kg	8-9 parts/7kg

MIXING

Only mix enough material that can be used within 30 minutes. In most cases, this will not be the entire unit unless more than one person is involved in the application and cleaning process.

Transfer the measured amount of compound (Part A) to a suitable sized mixing container and add the hardener (Part B). Mix the two components using a low speed mechanical stirrer (e.g. electric drill) until a uniform mixture is obtained. Maintain mixing paddle head below surface of liquid to reduce entrapped air.

Add filler (Part C) in incremental amounts until a non-slump consistency with uniform colour is obtained. Filler addition can be adjusted to accommodate site conditions (e.g. ambient temperatures, joint width). Coverage will vary dependant on the amount of filler added. Reducing filler decreases coverage and makes clean up more difficult. For wider joints, more filler may be necessary to obtain a firmer, non-slump consistency. To extend the pot life, spread the mix onto a non-absorbent surface (e.g. plastic sheet) at a thickness not exceeding 15mm and begin application.

To optimise the workability, incorporate less Part C filler at low temperatures and more Part C filler at high temperatures into the mix.

APPLICATION

Apply the mixed grout using a flexible metal trowel, spatula, gauging trowel or caulking gun. Compact the grout firmly into the joints ensuring they are completely filled, minimising the

amount left on the tile surface. Remove excess grout from the tile surface and begin cleaning.

Optimum pot life, coverage and workability are achievable when ARDEX Abapoxy is used at temperatures between 20-25°C. The components can be warmed or cooled to achieve optimal results depending on temperature and site conditions. Do not apply in temperatures below 10°C or above 30°C. Low temperatures will retard curing and high temperatures will dramatically shorten the pot life.

The pot life of the mixed mortar is approximately 60 minutes at 23°C and 50% relative humidity, when approximately 200ml are mixed. Warmer temperatures and larger mixes will reduce the pot life, only mix sufficient material that can be used within 30 minutes.

CLEANING

For best results, cleaning should be completed within 15 minutes after application. Grouting and cleaning 1-2m² at a time is recommended. Consult ARDEX for porous and heavily textured tiles.

Step 1: Using a refillable spray bottle or sponge, apply clean water to the surface and allow to stand for 3-5 minutes. Avoid water entering surrounding un-grouted joints.

Step 2: Using a damp scourer lightly soaked in water gently scrub, in a circular motion and loosen the excess grout on the tile surface. Step 2 may not be necessary when using the coarse filler.

Step 3: Using a damp sponge or open weave cloth soaked in water, remove grout from the tile surface. Warm water will improve the process.

Step 4: Smooth grout surface using a clean sponge. Frequent rinsing of sponge reduces clogging and prolongs its life.

Step 5: Remove remaining residue either by continuously sponging or by dragging a damp towel laid flat, across the tile surface.

It is important to clean all grout from the tile surface before the grout hardens. In some cases a slight smear may develop on the tile surface after cleaning. The smear can be removed 2-4 hours after grout application by wiping with a clean sponge or open weave cloth lightly soaked in water. For stubborn areas use a scourer. Clean residue no later than 24 hours after grout application. Note: Superior cleaning can be achieved by using solvents such as methylated spirits and a sponge only. However cleaning with solvent may be a health and safety issue. Where hardened smears are left on tiles, these will need to be removed with paint stripper.

DRYING TIME

Initial set and trafficable after 24 hours, full cure after approximately 7 days, after which time the grout joints are chemically resistant, at 23°C and 50% relative humidity. Allow longer for lower temperatures.

PACKAGING

ARDEX Abapoxy kits are packed as follows:
Mid Size Unit – Part A 4L + Part B 2L + Part C 20kg (fine) or 2 x 20kg (Coarse)

Commercial Size Unit – Part A 20L + Part B 10L + Part C 5 x 20kg (fine) or 7 x 20kg (Coarse)

Part A and Part B are packed in metal containers, Part C is packed in polylined paper sacks – net weight 20kg per unit

SHELF LIFE

ARDEX Abapoxy has a shelf life of not less than 24 months, when stored in the original unopened packaging, in a dry place at 23°C and 50% relative humidity. Keep away from flames and high temperatures. Keep away from food and drink. Reseal partly used containers.

Pay attention to the following:

There may be slight variation in colour between the coarse grade and fine grade Part C filler component.

Epoxy based grouts are prone to discolouration and chalking when used externally. However, performance is not affected. Light coloured epoxy grouts are subject to colour variation over prolonged periods.

When using the coarse grade filler component, exercise caution when grouting over soft or highly glazed tiles, ARDEX recommend a trial application.

The application of epoxy grouts, such as ARDEX Abapoxy require a high level of skill. Please ensure the applicator is aware and able to use the product.

When mixed in large volumes it is likely that ARDEX Abapoxy will cure faster reducing the pot life of the mixed material.

In low temperatures below 10°C, it is advisable to pre-heat the separate components or store in a temperature controlled environment for 12 hours prior to use. The sealed liquid components can be heated in warm water of up to 25°C.

In high temperatures above 30°C, the material should be stored in shade or an air conditioned environment for 12 hours prior to use.

Not suitable for use in areas subject to long term contact with high concentrations of chicken fat.

SAFETY PRECAUTIONS

Avoid contact with skin and eyes; in case of contact with the eyes, rinse immediately with plenty of water for 15 minutes and seek medical advice; wear suitable gloves and eye protection and keep the product out of the reach of children. Avoid generation of airborne dust during mixing, use only in well ventilated areas and wear appropriate respiratory equipment to avoid breathing vapour and fumes. If swallowed do not induce vomiting, give a glass of water to rinse mouth, then as much water as the patient can drink and contact a doctor. If skin contact occurs, remove contaminated clothing and wash skin thoroughly with warm soapy water.

ARDEX Abapoxy Part B is considered a corrosive material under UN 1760 Corrosive liquid N.O.S Packaging Group III Hazchem 2X. Causes burns. Harmful by inhalation and if swallowed. May cause sensitisation from inhalation and skin contact. Serious risk of damage to the eyes.

For further material safety data, consult the latest Material Safety Data Sheet.

COVERAGE

Coverage will vary according to tile size, joint width and depth, as well as the method of application and on site conditions. Allow an additional 15-20% for wastage. Minimum recommended width for coarse filler is 3mm.

Tile Size (mm)	Coverage in m ² /Kit fine filler (coarse filler)					
	Joint Width					
	1.5mm		3mm		5mm	
length x width x depth	Mid Kit	Commercial	Mid Kit	Commercial	Mid Kit	Commercial
25 x 25 x 4	23 (n/a)	110 (n/a)	11 (14)	60 (71)	7 (8)	33 (43)
50 x 50 x 6	30 (n/a)	150 (n/a)	15 (19)	80 (95)	9 (11)	44 (57)
100 x 100 x 8	46 (n/a)	225 (n/a)	23 (28)	110 (142)	14 (17)	66 (85)
150 x 150 x 6	92 (n/a)	450 (n/a)	46 (57)	218 (286)	27 (34)	131 (170)
200 x 200 x 7	105 (n/a)	500 (n/a)	52 (65)	250 (325)	32 (40)	150 (195)

CHEMICAL RESISTANCE

Chemical Reagents	Intermittent Exposure	Continuous Exposure
ACIDIC		
Sulphuric acid (20%)	R	R
Nitric acid (20%)	R	-
Hydrochloric acid (30%)	R	R
Formic acid (7%)	R	-
Acetic acid (10%)	R	-
Phosphoric acid (50%)	R	R
Tartaric acid (50%)	R	R
Citric acid (50%)	R	R
Lactic acid (10%)	R	R
ALKALINE		
Sodium Hydroxide (20%)	R	R
Ammonia concentrated	R	R
Hydrogen Peroxide (6%)	R	R
Aluminium Sulphate (40%)	R	R
Ammonium Chloride (20%)	R	R
SOLVENTS		
Diesel oil	R	R
Unleaded Petrol	R	R
Ethanol	R	-
White spirits	R	R
Xylene	R	-
1,1,1 Trichloroethane	R	-
Mineral Turpentine	R	R
MISCELLANEOUS		
Bleach	R	-
Pool Chlorine	R	R
Water (distilled, mineral, sea)	R	R
Milk	R	R
Wine	R	R
Fruit Juice	R	R
Olive Oil	R	R
Motor Oil	R	R
Sugar	R	R

Intermittent exposure: several times a day.
R = Recommended ' - ' = Not recommended

The above is intended as a guide only. The guide is based on chemical resistance. In some cases slight discolouration may occur. Contact ARDEX if other reagents are encountered.

TECHNICAL DATA

Product Identity

Type:

Part A - Compound
Part B - Hardener
Part C - Inert filler

Solids Content:

100%

Form and Colour:

Part A: clear colourless/pale yellow, medium viscosity liquid
Part B: clear low viscosity amber liquid with an ammonia odour.
Corrosive.
Part C: inert coloured powder (fine or coarse grade)

Application Properties at 23°C at 50% RH

Mixing Ratio (by volume): Fine-2:1:(8-10) (Part A: Part B: Part C)

Coarse-2:1:(8-9) (Part A: Part B: Part C)

Pot Life: 60 minutes

Approx Specific Gravity (mixture):

2.0 - 2.1

Application Temperature: +10°C to +30°C

Application Humidity: 30% - 70% RH

Curing Time: Trafficable: 24 hours

Full cure: 7 days

Service Temperature: (continuous): -20°C to +60°C

(intermittent): +105°C

Flammability:

Not flammable

Mechanical Properties (AS 4992)

Compressive Strength: 70 Mpa

Flexural Strength: 45 Mpa

Classification: RG 1

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