



ARDEX EG 900C

Solvent Free Water Washable Industrial Strength Epoxy Grout

Use where outstanding chemical resistance and superior strength are required

Ideal for commercial kitchens and industrial applications such as meat processing plants, breweries, and other areas where chemical resistance is essential

Exceptionally easy clean off with water, no solvent required

For joints from 1.5mm to 10mm

Suitable for wall and floor applications

Use with range of ARDEX Colour Packs

For internal and external applications

Low VOC content



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Solvent Free Water Washable Industrial Strength Epoxy Grout

DESCRIPTION

ARDEX EG 900C is a high performance solvent free water washable industrial strength epoxy grout designed for situations where outstanding chemical resistance and superior strength are required. ARDEX EG 900C is exceptionally easy to clean up during application. It can be used in joints up to 10mm wide on walls and floors. ARDEX EG 900C is a 100% solids epoxy grout system.

FOR GROUTING (TILE TYPES)

All vitrified, fully vitrified, and porcelain tiles. 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 EG 900C should be mixed to the ratios below in parts per weight:

Part A Compound	1kg
Part B Hardener	0.6kg
Part C Colour Pack	5kg

MIXING

Only mix enough material that can be used within 45 minutes.

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 ARDEX Colour Pack (Part C filler) 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 ARDEX Colour Pack Part C filler at low temperatures and more Part C filler at high temperatures into the mix.

APPLICATION

Apply the mixed grout using a grout float, 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.

The pot life of the mixture is approximately 45 minutes at 23°C and 50% relative humidity. Warmer temperatures and larger mixes will reduce the pot life, only mix sufficient material that can be used within 30 minutes.

Optimum pot life, coverage and workability are achievable when ARDEX EG 900C 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.

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: Remove excess grout from the tile surface using a rubber grout float in a diagonal pattern.

Step 2: Using a cleaning cloth lightly soaked in water gently wipe in a circular motion and loosen the excess grout on the tile surface.

Step 3: Using a cleaning cloth lightly soaked in water, gently remove any further residue and smooth the grout surface. Frequent rinsing of the cleaning cloth reduces clogging and prolongs its life.

Step 4: Using a chamois remove any remaining haze from the 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.

DRYING TIME

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

PACKAGING

ARDEX EG 900C is a three part system.

Part A: 1kg

Part B: 0.6kg

Part C: 5kg Colour Pack

SHELF LIFE

ARDEX EG 900C has a shelf life of 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:

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.

Exercise caution when grouting over soft or highly glazed tiles, ARDEX recommends a trial application.

In low temperatures 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 the material should be stored in shade or an air conditioned environment for 12 hours prior to use.

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 EG 900C 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 Safety Data Sheet.

Please ensure you are using the most up to date technical information by downloading the Technical Datasheet from our website or mobile App.

CHEMICAL RESISTANCE

Chemical Reagents	Short Term	Long Term
	Resistance	Resistance
ACIDIC		
Acetic Acid (10%)	R	R
Acetic Acid (25%)	R	-
Lactic Acid (25%)	R	R
Formic Acid (10%)	R	R
Formic Acid (25%)	R	-
Oleic Acid (100%)	R	R
Nitric Acid (10%)	R	R
Nitric Acid (35%)	R	-
HCL (30%)	R	R
Sulfuric Acid (98%)	R	R
ALKALINE		
Saturated NaOH	R	R
Ammonia concentrated	R	R
25% Hydrogen Peroxide	R	R
SOLVENTS		
Xylene	R	R
White Spirits	R	R
Diesel Oil	R	R
Mineral Turpentine	R	R
Methanol	R	R
MISCELLANEOUS		
Bleach	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
Chicken Fat	R	R

Short term resistance - 7 day immersion

Long term resistance - 28 day immersion.

R = Recommended ' - ' = Not recommended

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

TECHNICAL DATA

Product Identity

Type:

Part A - Epoxy Resin

Part B - Hardener

Part C - Colour Pack Filler

100%

Solids Content:

Form and Colour:

Part A: tan coloured viscous liquid

Part B: low viscosity amber liquid with an ammonia odour.

Corrosive.

Part C: inert coloured powder

Application Properties at 23°C at 50% RH

Mixing Ratio (by weight): 5: 3: 20-25 (Part A: Part B: Part C)

Mixing Ratio (by ratio): 2: 3: 9-12 (Part A: Part B: Part C)

Pot Life:

60 minutes

Approx Specific Gravity

(mixture):

~1.60g/cc

Application Temperature:

+10°C to +30°C

Curing Time:

Trafficable: 24 hours

Full cure: 10 days

Service Temperature:

(continuous): -20°C to +60°C

(intermittent): +105°C

Mechanical Properties (ISO 13007)

Compressive Strength:

>70 MPa

Flexural Strength:

>30 MPa

Abrasion Resistance:

<250mm³

Shrinkage:

<1.5mm/m

Water Absorption:

<0.1g

Classification:

RG

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