ARDEX PMO 593 S

Two-Component Modified Silane Joint Compound



- Designed for modular construction
- Crack resistant joints during movement
- Simple one-step application without tape
- Fast and shrinkage-free curing
- Easy sanding, priming and painting
- Class A Fire Rating UL 723 / ASTM E84
- Isocyanate-free and solvent-free

GEV-EMICODE EC 1 PLUS very low emission

Area of application
ARDEX PMO 593 S is a two-component joint compound for drywall construction based on modified-silane (MS) polymers. It is used to fill joints between building panels and to smooth the joint surface.

Description
ARDEX PMO 593 S is a water-resistant joint compound and surface finishing compound for drywall construction, which cures through a chemical reaction between the two components and is therefore unaffected by ambient humidity at the site of application.

The material cures without shrinkage and exhibits excellent adhesion to porous substrates.

Specially developed to meet the requirements of prefabrication (prefab/modular construction), the product enables work to be completed more quickly and ensures crack-free performance under movement stresses without the need for joint tape.

The product is free from isocyanates, solvents and silicone.

Type
Two-component, solvent-free, modified-silane polymer.

Preparation of the surface
All substrates must be sound, solid and free of dust, dirt and any other contaminant that might act as a bond breaker. Walls should be constructed in accordance with applicable building codes, and all wall boards must be securely attached. All loose or otherwise weak materials must be mechanically removed. Do not use chemicals to prepare the substrate. Substrates must be dry, and substrate and ambient temperatures must be a minimum of 40° F. Always apply a test area to confirm adhesion before full installation.

The system can be applied to different joint geometries, such as tapered or V-shaped joints.

For application on cut gypsum boards (butt-joints), it is recommended to prime the joints in advance with ARDEX P 51 Primer diluted at a ratio of 1:1 with water. This serves to bind dust particles and ensure sufficient adhesion to the gypsum core. At the same time, it prevents uneven curing of the material and thus possible shrinkage.

For project-specific recommendations, please consult the ARDEX Technical Service Department.

Mixing and Application
Before use, ensure that the product has been stored at room temperature for at least 24 hours.

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Manufactured under quality and environmental management systems certified to ISO 9001 and ISO 14001

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ARDEX PMO 593 S can be applied using a suitable trowel as well as via an automated dispensing or pumping system at a mixing ratio of 10:1 by volume (A:B). For manual application, the two components are supplied in the correct mixing ratio (3.0 L of Component A + 300 mL of Component B). Component B is added to Component A and mixed with a low-speed mixer until a uniform, streak-free paste of consistent color is formed. Avoid mixing for too long, as this reduces the product's open time.

For machine application using an automated dosing/ pumping system, please contact the ARDEX Technical Service Department for advice on selecting and setting up the appropriate system, as well as on the techniques for pump-operated application.

For V-shaped joints or tapered joints, ARDEX PMO 593 S can be applied in a thin, continuous layer over the joint and the surface of the panel. The application must be carried out in such a way as to ensure full surface contact and to avoid air pockets.

When applying before panel installation, the material must be applied to the panel edge before the next panel is installed. This method of application ensures secure and complete joint filling.

Working time of the material is approximately 40 minutes at 70° F and 50% RH. Fill and level the joint within this time to achieve a smooth and uniform surface across the entire joint area.

Joint tape is not required. For finishing (ASTM C840 / GA-214) sand the joint surface no sooner than 7 hours after application using 120 - 140 grit sandpaper or sanding screen. A drywall primer must be applied before painting.

Please note

Once cured, ARDEX PMO 593 S can be painted over using most standard paint systems. However, given the wide range of paints available, it is recommended to create a test area to ensure compatibility and the desired result. The material should be stored at room temperature. ARDEX PMO 593 S must not be used at temperatures below 40° F or above 85° F. Remove excess material while still uncured using a clean cloth or suitable cleaning agents.

Technical Data According to Manufacturer Quality Standards

Mixing ratio approx.	**Component A** 3 L Liquid component	**Component B** 300 mL Liquid component	**Consistency** Trowelable
Coverage range (approximate)	Butt joints: 0.20 lb / linear foot (0.30 kg / linear m) Tapered edge and V-shaped joints: 0.03 lb / linear foot (0.05 kg / linear m)		
Density	14.27 lb/gal (1.71 kg/l)		
Product classification	Class A Fire Rating UL 723 / ASTM E84		
Compliance with Standards	Meets ASTM C475, Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Boards		
Application properties			
Working time approx.	40 Minutes		
Ready to paint	Approx. 7 hours		
Application ambient conditions	40° F to 85° F		
Mechanical properties			
Tensile strength approx.	218 psi		
Product details			
EMICODE	EC 1 PLUS = very low emission PLUS		
Packaging	Component A: 3 Liter (approx 0.79 gal) bucket Component B: 300 ml (approx 10.1 fl oz.) sausage package		
Shelf life	18 months, if unopened and properly stored		

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Notes
Never mix with cement or additives outside of our written recommendations. In accordance with industry standards, and to determine the suitability of the products for the intended use, always install an adequate number of properly located test areas including the finish flooring. As floor coverings vary, always contact and rely upon the floor covering manufacturer for specific directives, such as maximum allowable moisture content, adhesive selection and intended end use of the product. Observe the basic rules of concrete work, including the minimum surface and air temperatures detailed above. Install quickly if the substrate is warm, and follow the warm weather installation guidelines available on our website. If the installation is not proceeding as expected: Contact the ARDEX Technical Service Department before proceeding further.

Precautions
Carefully read and follow all precautions and warnings on the product label. For complete safety information, please refer to the Safety Data Sheet (SDS) available at: www.ardexamericas.com. Dispose of packaging and residue in accordance with prevailing regulations. Do not flush material down drains. Do not reuse packaging.

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For full warranty details: www.ardexamericas.com/services/warranties