

EXPA G101

Expanding grout
admixture for cement
based injection grouting



Description:

EXPA G101 is a plasticized expanding grout admixture is supplied as a powder. The material is a combination of a plasticizing agent and a gas producing expansion medium. Sufficient restrained expansion is developed to ensure a high degree of interfacial contact.

Uses:

- Reduced water / cement ratio
- Positive expansions
- Bed grouting
- Duct grouting
- Non-shrink infilling and jointing

Advantages/Characteristics:

- Plastic shrinkage and settlement in properly designed cementations grout
- Low permeability and long term durability in service
- Gives grout high fluidity with low water/cement ratio
- No metallic iron content to corrode and cause staining or deterioration due to rust expansion in the grout
- High early strength development in grouts, without the use of chlorides

Product Standard Compliance:

- BS 8110 Part 1, 1997, Annex A

Company Standard Compliance:



Technical Information:

Properties	Specification
Appearance	Grey Powder
Time For Expansion	15 minute to 2 hour
Chloride content	Nil

Application Procedure:

- It shall be ensured that areas to be grouted are clean, sound, and then pre wetted.
- The unrestrained surface area of the grout must be kept to a minimum.
- The selected water content should be accurately measured into the mixer.
- The cement (and sand if required) shall be slowly added to EXPA G101.
- Mixing shall be continued for 5 minutes, making sure that a smooth even consistency is obtained.
- The grout shall be placed within 20 minutes of mixing to gain the full benefit of the expansion process.
- Usual placing or pumping procedures shall be adopted ensuring a continuous operation.

Application Dosage:

The optimum dosage of EXPA G101 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The dosages range recommended of EXPA G101 is 225gm to 1 Kg per bag of cement as per the requirement of particular work.

Design:

- For Injection work :

CEMENT CONTENT	EXPA G101	WATER	STRENGTH
50 KG	225 GMS	24.1	Min. 10 N/mm ²

- For Mortar work :

CEMENT CONTENT	SAND CONTENT	EXPA G101	WATER	STRENGTH
50 KG	100 KG	225 GMS	32.5	20 N/mm ²

Cleaning:

Grouts mixed with EXPA G101 should be removed from tools and equipment with clean water immediately after use. Remove cured material mechanically.

Overdosing:

Drastic overdosing of EXPA G101 increases expansion and may cause frothing.

Packaging:

EXPA G101 is supplied in 225gms pouch, 20 Kg bag.




Storage & Shelf-life:

Minimum of 6 months shelf-life if kept under room temperature (i.e. 27°C).

Health & Safety:

Contact with the skin and eyes, or inhalation of dust should be avoided. Suitable protective clothing, gloves eye/face protection and dust mask should be worn. In case of contact with skin, it shall be washed with clean water. In case of contact with eyes, it shall be rinsed immediately with plenty of water and medical attention shall be sought immediately. For further information, refer the Safety Data sheet available for this product.

	It is the practice of increasing efficiency with which buildings use resources- energy, water and materials-while reducing building impacts on human health and the environment.
	ISO 45001 is the world's international standard for occupational health and safety, issued to protect employees and visitors from work-related accidents and diseases.
	ISO 9001:2015 is a globally recognized standard for quality management systems (QMS). It helps organizations of all sizes and sectors to: Improve performance, Meet customer expectations, Demonstrate commitment to quality, and Identify and improve processes that lack consistency.
	ISO 14001 is the internationally recognized standard for environmental management systems (EMS). It provides a framework for organizations to design and implement an EMS, and continually improve their environmental performance.

	This symbol is used to identify Redwop products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.
	Our Commitment To The Environment Redwop products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.
	ISO/IEC 17025 enables laboratories to demonstrate that they operate competently and generate valid results, thereby promoting confidence in their work both nationally and around the world.

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