


who can prevent cracking
in cementitious materials?
you can.

Benda-Lutz 
Metallic Effects

working for you.



Benda-Lutz EXPANDAL

Benda-Lutz EXPANDAL is an aluminium based air entraining admixture used predominantly in plasters, mortars and concretes. The unique properties of EXPANDAL can be used to prevent dry shrinkage cracks typically associated with cementitious materials. It is a harmless, dry powder which is added directly to the mix. Once in contact with water, EXPANDAL will release gas microbubbles into the mix preventing crack formation. This mechanism can also be utilized to produce expanding or swelling concrete for filling of construction cavities.

Advantages

- Effective anti-cracking agent
- Safe and easy handling and incorporation

Uses

- Interior/exterior plaster on limestone or cement base
- Grout, mortar, flowable fill concrete

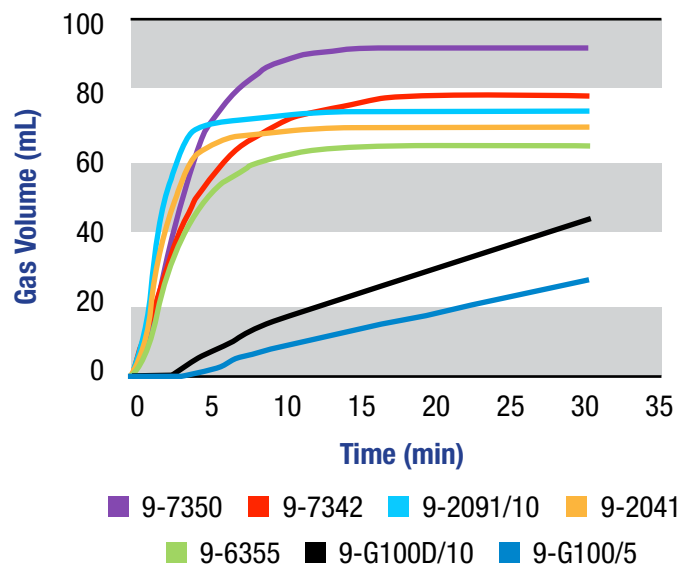
Dosage

The recommended dosage is between 0.02% and 2% by weight of cement. Optimal dosage will depend on the proportion of cement in the mix and the amount of expansion required.

Mixing

The incorporation method, mixing time and water content vary depending on the desired application. In general, forced action mixers should be used for optimal incorporation. Mix time should be 3 to 5 minutes. Best results are obtained when EXPANDAL is added as the last component to the mix after about half of the total mixing time.

Gas Evolution Curve



Benda-Lutz	Product Code	Metal Content	Type	Relative Expansion Characteristic
EXPANDAL 9-7350	BL45800	9 to 10	Not Dispersible in Water	Most expansion
EXPANDAL 9-7342	BS45130	9 to 10	Not Dispersible in Water	
EXPANDAL 9-2091/10	BL45206	9 to 10	Not Dispersible in Water	
EXPANDAL 9-2041	BL45510	9 to 10	Not Dispersible in Water	
EXPANDAL 9-6355	BL45200	9 to 10	Water-Dispersible	
EXPANDAL 9-G100D/10	BL45202	9 to 10	Designed for casting mortars	Least expansion
EXPANDAL 9-G100/5	BL45720	4.5 to 5	Designed for casting mortars	

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