



Expanseal* 105*

Multi-purpose acrylic joint sealant

Uses

As an internally or externally applied joints / cracks sealant in wide range of applications such as:

- Around window and door frame surrounds
- Curtain walling construction
- Brickwork
- Block work
- Precast construction
- Sealing composite and lightweight cladding panels

Advantages

- One component, ready to use, simple to apply
- Can be over coated
- Does not need priming
- Good weather resistance
- Will resist water contact
- Excellent adhesion to most substrates
- Suitable for use in local climatic conditions

Description

Expanseal* 105 is an acrylic emulsion based joint sealant which cures by loss of carrier to form a flexible seal. It is applied simply from the cartridge and can be finished neatly using suitable tooling. When cured it will accommodate small thermal, shrinkage and moisture movements. It can be over coated with most gloss or emulsion paints.

Design Criteria

Joints should be designed so that movement due to shrinkage and thermal change does not exceed the 12.5% movement accommodation factor related to the joint width.

Joint Width (mm)	Sealant Depth (mm)
5(min) - 10	As joint width
11 - 20	10
21 - 25 (max)	12 - 15

Sealant depth must never exceed joint width.

Properties

Specific gravity : 1.4

Movement accommodation factor : 12.5%

Skinning time (35°C/50% RH) : approx. 30-60 mins.

Shrinkage : approx. 15%

Cure time : 1-3 weeks depending on climate and thickness

Service temperature : -20°C to 80°C

Instructions for use

Expanseal* 105 has excellent adhesion to most substrates used in construction, particularly concrete, mortar, block work, wood, anodised bronze. It also bonds very well to some painted surfaces, but it is advisable to carry out a site trial first to assess the suitability of the particular coating in question.

For glass surfaces, Expanchem Fospak recommends Expanseal* 130

Joint preparation

Joint surfaces must be clean and dry. Remove all dust and laitance by grit blasting, grinding or rigorous wire brushing. Blow all joints clean using dry, oil free compressed air. Where necessary to achieve the correct joint profile Expanfill* backing cord should be used. Where backing cord is not used place Expanseal* De-bonding Tape* in base of joint. Where a neat finish is required, masking tape should be applied down each side of the joint prior to the start of the sealant works, it should be removed immediately after tooling the sealant.

Priming

Priming is not generally required with this material, although a 50:50 solution of Expanseal* 105 with water, or alternatively Expanbond AR may be used to seal very porous surfaces.

Application

Expanseal* 105 can be applied by hand or air operated caulking gun. Ensure that the sealant is pushed firmly in to the joint to give complete wetting of the surface. Any tooling of the sealant surface must be carried out immediately using a joint shaping tool soaked in white spirit, or a wet sponge. If required the edges of the joint can be protected with masking tape - if this is done ensure that the tape is removed immediately after tooling.



Cleaning

Uncured Expanseal* 105 can be cleaned off with water. Cured sealant can be removed mechanically or by soaking in MEK.

Overcoating

The sealant can be over coated with emulsion paints the day after application. For spirit based paints it is advisable to allow several days for the sealant to cure. If a quicker overcoating is required, a small area should be tried first. It should be noted that although most paints adhere well to Expanseal* 105, a rigid coating will not be able to take the same movements as the sealant and may exhibit cracking.

Limitations

Expanseal* 105 is not recommended for joints subject to water immersion.

Do not apply at temperatures below 5°C.

Technical support

Expanchem Fospak offers a comprehensive range of high performance, high quality repair, maintenance and construction products. In addition, Expanchem Fospak offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the world.

Estimating

Supply

Expanseal* 105 : 1 Kg. Tin
5 Kg. Tin

Guide to sealant quantities

Number of litre required =

$$\frac{\text{Joint width (mm)} \times \text{sealant depth (mm)} \times \text{joint length (m)}}{1000}$$

A further amount should be allowed for wastage

Storage

Twelve months in original containers stored in cool dry conditions i.e. not exceeding 25°C. Storage above this temperature will reduce storage life.

Precautions

Health and safety

Avoid contact with eyes and skin. In the event of eye contact wash thoroughly with clean cold water.

* Denotes the trademark registered.

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