



Technical Datasheet
Epoxy Expansion Jointing

PUMEXPAND V

DESCRIPTION

Pumexpand is a thixotropic two part polyurethane modified epoxy jointing compound designed specifically to provide excellent chemical resistance and durability together with a high degree of flexibility. when infilling expansion jointing in vertical situations.

COMPOSITION

Two part coloured polyurethane modified epoxy resin.

APPEARANCE

Pumexpand is available in the standard range of Resdev colours and has a smooth finish.

DURABILITY

Pumexpand exhibits the highest order of abrasion resistance and will withstand heavy trucking.

THICKNESS

Pumexpand may be applied up to 50mm thickness and will not contract during cure. Although Pumexpand is solvent free, large volumes do generate heat during cure and contraction could occur. Please consult our technical department if in doubt.

TYPICAL INSTALLATIONS

Pumexpand is suitable for filling joints in concrete subject to heavy industrial use. It is particularly suitable for sawn joints in long strip flooring and larger concrete joints.

Pumexpand is not only suitable for expansion jointing in Resdev resin flooring where needed, but has been tested and proven suitable for use with other manufacturers heavy duty polyurethane and epoxy resin flooring, where it is important that the special properties of the flooring are not diminished where expansion jointing is necessary.

SUBSTRATES

Pumexpand will adhere well to concrete, grano, asphalt, epoxy, polyurethane, polymer modified floor and wall finishes.

JOINT PREPARATION

When necessary, a firm backing should be used in joints over 12mm wide. Joint fillers must be well compacted. The joint must be dry, sound and free from laitance, old mastic, bituminous joint filler residues, dust or any loose matter. All residual dust from joint cutting should be completely removed.

PRIMING

Apply a liberal coating of Pumaprime S.F to the walls of the joint using a stiff brush or similar.

ENSURE that a debonding film is applied to the base of the joint prior to installation of Pumexpand.

MIXING

Add the full contents of the hardener container to the full contents of the resin container and mix thoroughly using a rigid steel blade.

APPLICATION TECHNIQUE

Apply by pointing trowel or spatula to horizontal, vertical or overhead joints, or load material in cartridges for gun application.

COVERAGE RATES

Pumexpand V is supplied in 1kg (0.95 litre units) (950 cc)

Calculate volume required as follows:-

Length in metre x Depth in mm x Width in mm = Volume in c.c. e.g.

1 metre length x 20mm depth x 10mm width = 200c.c.

Thus 1 x 5kg unit of Pumexpand would be sufficient for approximately 24 lin. Metres of joint at this cross section.

CURE SCHEDULE

Pot Life at 20° C	-	50-70 mins
Recommended Application Temperature-		+5°C to +30°C
Service Temperature Range	-	-10°C to + 85°C
Initial Cure (Traffic) at 20° C	-	24 hours
Initial Cure (Traffic) at 10° C	-	48 hours
Full cure (Chemical Attack) at 20° C	-	5-7 days

CHEMICAL RESISTANCE

Pumexpand exhibits excellent chemical resistance. Please refer to technical data "Chemical Resistance (FX) Flexible Epoxy".

COLOURS AVAILABLE

Available in full resdev colour range.

TECHNICAL DATA

Tensile strength to BS2782	-	23N/cm ²
% Elongation at break to BS2782	-	70-90%
Tear Strength to BS2782	-	840N/m
Shore 'D' Hardness	-	40-50
25% Modulus of compression	-	8N/mm ² typical
Compression set at 25%	-	3% after 24 hrs
In service accommodation	-	15-20%

HEALTH AND SAFETY

Please read technical data sheet reference TD103 and specific health and safety data for this product provided in compliance with the requirements of EC Directive 91/155.

STORAGE, MIXING & APPLICATION

The storage, mixing and application conditions can affect the quality of the finish produced. Please read technical data sheet reference TD104.

TECHNICAL ADVICE

For further information on this or any other Resdev product, please contact our Customer Care Department on 01422 379131.