

# QUATTRO

## CONTRACTING (PENRITH) LTD

UNITS 5/6 ULLSWATER  
BUSINESS PARK  
PENRITH, CUMBRIA, CA11 7EH  
Tel: 01768 868004  
Fax: 01768 865195  
www.quattrocontracting.co.uk

## EXPAND V

### DESCRIPTION

Expand 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

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

### DURABILITY

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

### THICKNESS

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

### TYPICAL INSTALLATIONS

Expand 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. Expand is not only suitable for expansion jointing in 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

Expand 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 Q/Prime 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 Expand.

### 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

Expand 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 Expand 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° C0  
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

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

### COLOURS AVAILABLE

Available in full colour range.

### TECHNICAL DATA

Tensile strength to BS2782 - 23N/cm<sup>2</sup>  
% Elongation at break to BS2782 - 70-90%  
Tear Strength to BS2782 - 840N/m  
Shore 'D' Hardness - 40-50  
25% Modulus of compression - 8N/mm<sup>2</sup> 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.