

# METZ 20B

## POLYURETHANE MOVEMENT JOINTING



### DESCRIPTION:

Metz 20B is a two-part polyurethane based compound used as a movement jointing compound where toughness and good chemical resistance are required. Metz 20B is designed to protect the edges of joints from impact damage, whilst still allowing some movement.

### FEATURES AND BENEFITS:

- **Chemical Resistant**  
Resistant to a wide range of acids, alkalis, oils and salts.
- **Flexible but Tough**  
Toughness combats fretting of joint edges caused by heavy traffic, unlike softer materials such as silicone.
- **High Bond Strength**  
Good adhesion to ceramic tile, steel and concrete.
- **Complete System Offering**  
Use in conjunction with Metz tiling and coating products to produce a complete system solution.
- **Low VOC Content**  
100% solids formulation. Complies with requirements of Green Building Council.
- **Quality Accreditation**  
The management system governing the development and manufacture of this product is proudly ISO9001:2008 certified.

### RECOMMENDED:

As a movement joint compound in ceramic tile, brick, monolithic toppings and concrete in

- Commercial Kitchens
- Pharmaceutical Plants
- Chemical Plants
- Food and Beverage Industry
- Power Stations
- Industrial and Heavy Engineering Plants

### NOT RECOMMENDED:

- As a movement joint requiring movements greater than  $\pm 10\%$ .
- For exposure to large quantities of solvents. Refer Metz Chemical Resistance Chart.
- Light colours are not UV colour stable

### PHYSICAL PROPERTIES: (Typical Values)

Density:	1.4 - 1.5 g/cm <sup>3</sup>
Tensile Strength:	10 MPa
Hardness, Shore D	40
Adhesion to Steel:	>20MPa
Elongation at break:	100%
Colour:	Black, Grey, Red - other colours made to order.
Max. service temperature (continuous):	100°C
VOC Content:	2g/L

### COVERAGE: Theoretical quantities (allow for wastage)

For 6mm x 12mm joint                      0.11 kg/lin.metre

One unit will cover approximately 27 lin.m of 6mm x 12mm joint excluding wastage.

### APPLICATION TEMPERATURE:

The recommended temperature range for application of Metz 20B is 10°C to 35°C.

At temperatures below 10°C, curing may be inhibited and final technical properties may be affected.

At temperatures above 35°C, consistency and setting rates may be affected.



Established 1953

Acid Proofing • Industrial Flooring • Specialty Ceramic Tiling

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### INSTRUCTIONS FOR USE

#### 1. Temperature of Working Area

The recommended temperature range for application of Metz 20B is 10°C to 35°C.

At temperatures below 10°C, curing may be inhibited and final technical properties may be affected.

At temperatures above 35°C, consistency and setting rates may be affected.

#### 2. Surface Preparation

All surfaces to be jointed must be clean and completely dry. In instances where it is not possible to provide a completely dry surface, contact Metz for details of suitable primers.

#### 3. Mixing

##### a) *Mixing Equipment*

Mechanical mixing is recommended. A low speed heavy duty mixer with a suitable mixing paddle can be used. Use equipment and procedures which minimize the entrapment of air in the mix.

##### b) *Mixing Proportions*

Metz 20B is supplied in pre-weighed units of 3kgs (2 lts), consisting of 2.4kg of liquid and 0.6kg of hardener.

##### c) *Mixing Procedure*

Pour contents of hardener container into liquid container. Mix thoroughly for 2-3 minutes. Ensure thorough mixing. Scrape around edges and bottom of container to ensure no unmixed material.

##### d) *Pot Life:*

Approx. 30 minutes at 20°C.

##### e) *Clean Up*

Mixing equipment, tools, etc., can be cleaned with Metz Cleaner, xylene, acetone or MEK prior to initial set of the Metz 20B.

#### 4. Installation

Use of Metz Epoxy Primer is required for immersion conditions or where surfaces cannot be completely dried (refer to Metz Epoxy Primer Data Sheet for instructions for use). Metz 20B should be applied 4 to 24 hours after application of primer (at 20°C).

Regulate the joint depth by placing oversize polyethylene rod or equivalent in the joint. Recommended depth is 12mm. Minimum width 6mm.

Apply masking tape to floor on both sides of joint. Pour or gun Metz 20B into joint. Overfill joint slightly. Allow Metz 20B to settle, then smooth joint with spatula or similar before initial set takes place. If joint has sunk, apply more Metz 20B before initial material set. After finishing joint, remove masking tape immediately before material sets.

#### 5. Setting/Curing

Setting Time: Overnight at 20°C  
Full Cure: 7 days at 20°C.

#### 6. Usage Theoretical Quantity (allow for wastage)

For 6mm x 12mm joint 0.11kg/lin.metre. One unit will cover approximately 27lin.m of 6mm x 12mm joint excluding wastage.

**Note:** Joints should be a maximum 15mm deep to allow for movement.

#### 7. Storage

Shelf life is at least 6 months if liquid and hardener kept in sealed containers under cool dry conditions. Hardener will react with moisture in air if left exposed.

#### 8. Safety Precautions

##### *Liquid and Hardener:*

Use chemical goggles, PVC gloves and barrier cream. Avoid contact with skin and eyes.

For full safety precautions refer to the Safety Data Sheets for both components.

**Note:** Neither liquid nor hardener is classified as Dangerous Goods for transportation.

**Always ensure you have the latest data sheet version, refer [www.metz.net.au](http://www.metz.net.au)**

- The customer must comply strictly with the instructions contained in this product data sheet. Metz is not responsible for any advice or variations to this data sheet which are not confirmed in writing.
- If the customer has a claim against Metz in respect of any product supplied to the customer by Metz whether due to a fault in the product or the negligence or breach of contract by Metz or for any other reason:
  - Metz shall not be liable for any loss of damage including consequential loss or damage or loss of profits arising thereby;
  - Metz may at its option replace the defective product free of charge to the customer or refund all payments made to it by the buyer in respect of the defective product; and the maximum liability of Metz shall be the cost of replacing the defective product.

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