

METZ 20E

FLEXIBLE EPOXY SEALANT



DESCRIPTION:

Metz 20E is a flexible epoxy compound designed specifically for use as a sealant in swimming pool movement joints. It is tolerant to the presence of moisture and can in fact be applied underwater.

Metz 20E is resistant to swimming pool chemicals such as sodium hypochlorite and dilute hydrochloric acid. It is flexible but tough, so it can withstand abrasion and vandal attack, unlike softer sealants.

FEATURES AND BENEFITS:

- Resistant to swimming pool chemicals, and to a wide range of acids, alkalis, oils and salts
- Tough but flexible
- Good abrasion resistance
- 100% solids. Does not contain solvents
- Resistant to vandal attack
- Can be used for horizontal and vertical joints
- Can be applied to damp surfaces or even underwater

RECOMMENDED:

As a movement jointing sealant in swimming pools.

Can also be used as a movement joint sealant in food and beverage plants, chemical plants etc.

NOT RECOMMENDED:

- As a movement joint requiring movements greater than $\pm 10\%$.
- For exposure to concentrated acids.
- For exposure to solvents

Consult Metz for suitable alternative products.

PHYSICAL PROPERTIES:

(Typical Values)

Density: (g/cm ³):	1.45 - 1.55
Shore A Hardness:	75-85
Elongation at break:	>100%
Colour:	White. Other colours may be available, based on minimum ordering quantity.

COVERAGE:

Theoretical quantity (allow for wastage):

For 6mm wide x 10mm deep joints : One 3 L unit of Metz 20E will cover 50 lineal metres.

1kg mixed of Metz Epoxy Primer will cover approx 300 lineal metres of 10mm joints.



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INSTRUCTIONS FOR USE

1. Temperature of Working Area

The recommended temperature range for application of Metz 20E is 5°C to 35°C.

At temperatures below 5°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 dry. Remove all oil, grease and other contaminants that may inhibit bond.

Priming is recommended for all joints that will be subject to immersion in water.

3. Mixing

(a) Mixing Equipment.

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

(b) Mixing Proportions

	By weight	By volume
Metz Epoxy Primer		
Liquid L1	1.85	1.6
Hardener	1	1

Note: L1 Neutral Liquid should be used

Metz 20E is supplied in 3 L pre-measured kits. If smaller quantities are required, the mixing ratio is:

	By Volume
Liquid	9 parts
Hardener	1 part

(c) Mixing Procedure

Re-mix liquid thoroughly before use.

Add hardener to liquid container and mix thoroughly for 3 to 5 minutes.

Ensure material around sides and on bottom of mixing container is scraped into centre of container and thoroughly mixed.

Ensure you have the latest mixing instructions, refer www.metz.net.au for most current data sheet version.

(d) Pot Life

Metz Epoxy Primer approximately 70 mins at 20°C

20E approximately 1 hour at 20°C.

(e) Clean Up

Mixing equipment can be cleaned with Metz Cleaner, acetone or MEK prior to initial set.

4. Installation

Use of Metz Epoxy Primer is required for immersion conditions. Refer to Metz Epoxy Primer data sheet.

Allow primer to dry before applying sealant. Usually, it is best to apply Metz 20E the day after application of the primer.

Regulate the joint depth by placing oversize polyethylene rod or equivalent in the joint. If joint is not deep enough to use the rod, plastic tape or other bond-breaking material should be placed in the bottom of the joint.

Application - Metz 20E can be used in both horizontal and vertical joints. Apply masking tape to surfaces on both sides of the joint. Place appropriate follower plate onto mixed material. Fill a bulk caulking gun directly from the mixing container and gun Metz 20E into the joint smoothly and evenly, taking care not to overfill the joint.

Tool the surface of Metz 20E off using a suitable smooth metal tool (such as a spatula) before initial set takes place. After finishing joint, remove masking tape.

5. Setting/Curing:

Setting Time - 24 hours at 20°C

Can be subjected to water and foot traffic after 24 hours at 20°C.

Before exposure to pool chemicals, allow 4 to 5 days at 20°C.

Full chemical cure - 7 days at 20°C

6. Storage

Store in original sealed containers in a cool, dry place. Under these conditions, shelf life is minimum of 12 months.

7. Safety Precautions

Metz 20E liquid and hardener and Metz Epoxy Primer liquid and hardener: Avoid contact with skin and eyes. Use chemical goggles, PVC gloves and barrier cream. If contamination occurs, wash affected area with soap and water. Never use solvents, such as Metz Cleaner for this purpose.

For full safety precautions refer to the Material Safety Data Sheet.

Always ensure you have the latest data sheet version, refer 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 or 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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