CERMITHANE

One component, polyurethane based, liquid mastic

DESCRIPTION

One component, polyurethane based isolation and filling material. Creates an extremely elastic film curing with the humidity in the air. Easily applied in a wide temperature range. Suitable for vertical and horizontal joints.

WHERE TO USE

CERMITHANE is used as filler in the areas listed below:
• Isolation of general construction joints,
• Watertanks,
• Irrigation channels,
• Foundation walls,
• Prefabricated concrete elements,
• Concrete, wood, marble, aluminium, steel, ceramics, gypsum panels, etc.

APPLICATION

Surface Preparation
• Remove all soil, grease, mortar particles, cement residues, loose particles from inside of dilatation joints to be filled.
• Surfaces of joints/dilatation joints must be clean and dry.
• Prime the surface if necessary before application of mastic.
Caution: Particularly recommended for application on primed surfaces.

METHOD OF APPLICATION

• Recommended application temperature ranges between +5 °C and +40 °C.
• In cold weather, store unused sausages at about 20°C.
• To reduce the consumption and to control filling depth, polyethylene fillers placed in dilatation joints before application.
• Finish the surface with spatula after application on polyethylene fillers.

CONSUMPTION

Linear dimensions for each 600 ml sausage (linear meter):

	WIDTH	5 mm	10 mm	15 mm	20 mm	25 mm
DEPTH						
5 mm		24	12			
10 mm				4	3	2,4
15 mm						1,6

To obtain best result in dilatation joint filling, the ratio of the width to depth must be 2/1, which the depth is required min. 10 mm. Consumption amounts changes according to width and depth of dilatation joints.

PACKAGING

600 ml sausage (grey, black, white)

STORAGE

The product may be stored for 12 months in sealed original packaging at a cool and dry place.

CHARACTERISTICS

- *Easily applied & economic product.*
- *One component.*
- *It has perfect aging resistance.*
- *Paintable. (Must be tested in advance depending on the type of paint).*
- *Keeps its elasticity even at -40 °C.*
- *Perfect resistance against microorganisms and various chemicals.*
- *The product does not contains toxic substance after curing. (Suitable for drinking and using water).*
- *Used in joint isolation in swimming pools.*
- *Perfect adhesion on all surfaces. (Especially epoxy primed surfaces).*
- *Thixotropic character. (Does not slip in vertical and horizontal joints).*

SAFETY MEASURES

• Due to irritating effect of uncured materials, avoid contact of components with skin or eyes. In case of any contact, wash skin or eyes with plenty of water and soap and seek medical assistance in cases of severe exposure.
• Always wear gloves and goggles during application. Avoid contact of uncured materials with foods.
• It is hazardous to approach to work area with open flame.
• Store at places out of reach of children.
• Safety Data Sheets of the materials may be provided from the technical department.
• Completely cured materials are totally safe.

TECHNICAL SPECIFICATIONS

DEFINITION	UNIT	METHOD	CHARACTERISTIC
Density at 20 °C	gr/cm^3	ISO 2811 / DIN 53217 / ASTM D1475	1,35
Hardness	Shore A	ISO R868 / DIN 53505 / ASTM D2240	±25
Service temperature	°C	-	Between -40 and 90
Shock temperature	°C	-	120
Application temperature	°C	-	Between 5 and 40
Drying time at 25ºC and 55% relative humidity	hour	-	2
Curing time	mm/day	-	Approx. 2-3
Elongation at break	%	DIN 52455 / ASTM D412	>900
Tensile strength at 100% elongation	N/mm^2	DIN 52455 / ASTM D412	2,5-3
Adhesion to concrete	N	ASTM D 1640	>32
Elasticity	%	DIN 52458	>80
QUV (accelerated abrasion test under air factor) 4 hours at 60°C UV (UVB Lamps) and 4 hours at 50°C COND application	-	ASTM G53	Passed (after 2000 hours)
Thermal resistance (100 days at 80°C)	-	EOTA TR011	Passed
Toxicity	-	-	No (after curing)
Hydrolysis (8% KOH, 15 days at 50°C)	-	-	No change observed in elastomeric character
Hydrolysis (H2O, 30 days at 60-100°C, alternating	-	-	No change observed in elastomeric character
HCI (PH=2, 10 days at RT)	-	-	No change observed in elastomeric character