

CP360

MMA FLEXIBLE MEMBRANE



KEY BENEFITS SUMMARY

- Highly flexible with excellent crack-bridging characteristics even at extremely low temperatures (-20°C and below)
- Very high impact and puncture resistance as well as chemical and abrasion resistant
- Withstands stress and movements in the substrate
- Excellent adhesion to a wide range of substrates including asphalt (subject to testing)
- Based on PUMA technology - free from external plasticisers

PRODUCT INFORMATION

Description

CP360 is a medium viscosity, modified MMA, prereacted 100% solid membrane system based on acrylic monomers. To initiate curing, just add CP510 MMA Initiator.

Usage / Purpose

CP360 is designed as a simple to apply, highly elastomeric liquid waterproofing membrane and coating.

The cured product is a very flexible crack-bridging membrane that retains its flexibility and crack-bridging performance in service even when the temperature reaches -20°C.

The domains of application for CP360 include:

- As a bridge deck waterproofing membrane, onto which asphalt at temperatures up to 250°C can be directly applied.
- For the sub-grade waterproofing of buildings and civil engineering structures, including underneath ground slabs.
- The waterproofing of concrete and metal railway bridges including directly under track ballast.
- The waterproofing of pedestrian and vehicular trafficked areas (e.g. balconies, car parks, etc.)
- The protection and waterproofing of stadium terracing
- The waterproofing of tunnels, channels and dam structures.
- The waterproofing of containment structures including reservoirs and waste and contaminated material storage structures.
- Offshore platforms.

CP360 can be applied at a whole range of ambient and substrate temperatures (-10°C to +35°C) onto cementitious based screeds, concrete, filled bitumen/asphalt, metal, ceramic tile and wood substrates.

Packaging

25 kg units

Availability

Direct from tremco illbruck (see bottom of leaflet for address and telephone details).

Protective Equipment

USE IN WELL VENTILATED CONDITIONS and ensure all recommended protective equipment is worn during handling & use of this product. For full recommendation, refer to safety data sheet.

Surface Preparation

- The area to be waterproofed must be dry, firm, solid and free of dust, fat and oil.
- Laitance and loose particles must be removed thoroughly, e.g. by shot blasting.
- Fats or oils as well as humidity can be removed by flame blasting for example.
- Before the application of the CP360, a suitable TREMCO MMA Primer, including sanding when appropriate, must be first applied.

Mixing

- Prior to use CP360 must be carefully mixed to achieve a uniform distribution of the paraffin contained in the product.
- CP360 is thoroughly mixed together with the CP510 MMA Initiator (50% dibenzoyl peroxide), in accordance with the below guidelines.
- Ensure the product is mixed using a suitable non-sparking/ATEX mixer.

It should be noted that the amount of catalyst powder to be added depends upon the temperature.

| Temperature | Catalyst to add to each 25 kg pail |
|-------------|------------------------------------|
| 30°C | 250 g |
| 20°C | 350 g |
| 10°C | 600 g |
| 0°C | 1000 g |
| Below 0°C | 1000 g |

Please contact our tremco illbruck's Technical Service Department for further details.

Note: Weight to Volumetric conversion of Catalyst.

1 cm³ of CP510 MMA Initiator = 0.64 g

1 g of CP510 MMA Initiator = 1.57 cm³

Method of Application

The material consumption and application method depends in which of the TREMCO MMA systems CP360 resin is being used for; see specific System data sheets for further information.

Cleaning

Clean tools, etc., and remove surplus adhesive using AW421 cleaner.

Health & Safety Precautions

Safety data sheet must be read and understood before use. Highly flammable - keep away from open flames and other ignition sources.

Technical Service

tremco illbruck has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

Guarantee / Warranty

tremco illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with tremco illbruck written instructions and (b) in any application recommended by tremco illbruck, but which is proved to be defective, will be replaced free of charge.

No liability can be accepted for the information provided in this leaflet although it is published in good faith and believed to be correct.

tremco illbruck Limited reserves the right to alter product specifications without prior notice, in line with Company policy of continuous development and improvement.

TECHNICAL DATA

| PROPERTY | RESULT (Liquid State) |
|---|---|
| Composition | Modified MMA resin |
| Viscosity (DIN 53018 @ 25°C) | 460 – 730 mPa*s |
| Density (EN ISO 2811 @ 25°C) | 1.3 g/ml |
| Pot Life/Processing Time (@20°C) | Approximately 15 minutes |
| Curing Time (@ 20°C) | Approximately 60 minutes |
| Flash Point (EN ISO 1516) | +11.5°C |
| PROPERTY | RESULT (Cured State - tested at 20°C) |
| Shore A Hardness (NFP 98285) | >85 IRHD |
| Shore D Hardness (DIN 53505) | 55 |
| Tensile Strength (EN ISO 527) | 8.4 MPa |
| Elongation at Maximum Strength (EN ISO 527) | 370% |
| Modulus of Elasticity (EN ISO 527) | 78 MPa |
| Abrasion 1000 Cycles (ISO 7784-2) | 64 mg |
| Dynamic Crack-Bridging (BPG) | > 5 mm |
| PROPERTY | RESULT (Cured State - samples kept at -20°C for 24 hours before testing) |
| Tensile Strength (EN ISO 527) | 8.8 MPa |
| Elongation at Maximum Strength (EN ISO 527) | 360% |
| Modulus of Elasticity (EN ISO 527) | 630 MPa |
| Dynamic Crack-Bridging (BPG) | > 5 mm |
| | For the consumption of the product per m ² ; please consult tremco illbruck Technical Service |
| Coverage | Per layer of membrane; a minimum thickness of 1 mm (= 1.3 kg/m ²) should always be applied To bed 150 mm fleece reinforcement, use 0.45 kg/lm of CP360 |
| Storage | Store in shaded dry conditions between +15°C and +20°C |
| Shelf Life | 6 months when stored as recommended in original unopened containers |

Please note that an objective comparison with other data is only possible if norms and parameters are identical.

