

• PRODUCT INTRODUCTION

Cotran Brand KC80 waterseal mastic tape is a conformable self-fusing rubber electrical insulating and sealing tape. KC80 consists of ethylene propylene rubber (EPR) and butyl mastic adhesive. It has strong adhesion to copper, aluminum, and cable jackets. It provides excellent waterproofing performance and temperature stability at 90°C, and withstanding of overload temperature up to 130°C.



Applications

- ◆ Use for insulating, filling and moisture sealing in splices of all types of power cables and optical telecommunication cables. For primary insulation up to 1000 volts.
- ◆ Use for insulation and moisture sealing irregular shaped bus bar bolted connections
- ◆ Use for moisture sealing high or low voltage junction boxes and irregular splices.
- ◆ Moisture seal for power cable and wire connections
- ◆ Moisture seal for service drops
- ◆ Moisture seal for ground wire and rod connections

Test Parameters

| No. | Test Item | Result |
|-----|-----------------------------|---------------------------|
| 1 | Width | 51mm |
| 2 | Thickness | 1.65mm |
| 3 | Tensile Strength | 1.29MPa |
| 4 | Elongation at Break | 970% |
| 5 | Water absorption | 0.16% |
| 6 | DielectricStrength | 26.5kV/mm |
| 7 | Volume resistivity | 8.9x10 ¹⁵ Ω.cm |
| 8 | Adhesion (180° Steel plate) | 78.4N/50mm |
| 9 | Heat exposure | Pass, 130°C |
| 10 | Ozone ageing | Pass |
| 11 | UV ageing | Pass |
| 12 | Xenon ageing | Pass |

Installation

Cotran Brand KC80 waterseal mastic tape should be applied in half-lapped layers until desired insulation build up is reached.

Step 1 Wipe off the dusts on the splice area before wrapping.



Step 2 Remove the liner and stretch the tape to 1 to 2 times of its original length, apply the tape in 50%-lapped with mastic side toward area to the wrapped. Stretching the tape to 4 times of its original length is not recommended.



Step 3 Make sure there is 30mm to 50mm wrapping tape above both sides of the splice area.



Step 4 After KC80 waterseal mastic tape is applied, overwrapping COTRAN PVC insulation tape is recommended, apply 3 layers of COTRAN PVC insulation tape in a 50% overlapping with no tension. Make sure not to overstretch the PVC tape during installation.