

**Expansion Joint Cover Systems** 

# Technical Data Sheet

Handbook

**Retail & Commercial** 

**Car Parks** 

**Adhesives & Mortars** 

Accessories

www.miska.com.au

Refer to the back of this booklet for contact information.



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# Miska™ AC2 Series

**Expansion Joint Cover System** 

# **Technical Data Sheet**

March, 2020

# **Product Description**

The AC2 Expansion Joint Cover System is a 3 piece solution designed to enable safe transition for pedestrians and wheeled traffic over expansion joints.

The AC2 Series is designed for environments such as retail centres, indoor and outdoor public spaces, airports, hotels, and stadiums. The AC2 Series is available with either an aluminium or stainless steel coverplate.

# **Features**

- Load Rating AS1170.1 Retail Areas.
- Foot-safe for Pedestrian Traffic.
- Structural Grade Aluminium 6061 with 25um anodised finish.
- Vertical Movement ±10mm.
- Standard Product Length = 4.8 m.
- Stainless Steel coverplates 304 grade
  - 3mm #4 Finish
  - 5mm R10 Brushed Finish
- All Installation Fixings supplied.

# **Other Options**

Height adjusting screws available.

Suits all floor finish types: tiles carpet, stone, vinyl, concrete and epoxy floors.





### **Coverplate**



Stainless Steel



Aluminium

# **Environment**

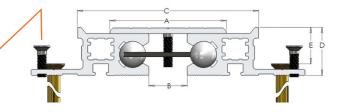




Service Equipment

# **Installation Benefit**

Optional: Miska AC2 Series can be supplied with height adjusting screws for levelling out the joint system in the rebate. Provides improved speed of installation which reduces in-place costs.



# **Product Specifications**

#### Block-out dimensions 40mm Deep x 100mm Wide each side.

| Pa           | Part #       |       | A = Cover Plate |      | B = Gap |      |      |       | xposed V | D     | E      |        |
|--------------|--------------|-------|-----------------|------|---------|------|------|-------|----------|-------|--------|--------|
| Al           | SS           | Width | Thick           | Min  | Mid     | Max  | Mvmt | Min   | Mid      | Max   | Height | Height |
| EJAC2A-3075M | EJAC2S-3075M | 75mm  | 3mm             | 6mm  | 30mm    | 54mm | 48mm | 100mm | 124mm    | 148mm | 31mm   | 23.5mm |
| EJAC2A-3100M | EJAC2S-3100M | 100mm | 3mm             | 20mm | 49mm    | 78mm | 58mm | 114mm | 143mm    | 172mm | 31mm   | 23.5mm |
| EJAC2A-5100M | EJAC2S-5100M | 100mm | 5mm             | 20mm | 49mm    | 78mm | 58mm | 114mm | 143mm    | 172mm | 31mm   | 23.5mm |



# Miska™ ACTP Series

# **Technical Data Sheet**

**Smooth Transition Expansion Joint Cover System** 

March, 2020

# **Product Description**

The ACTP Expansion Joint Cover System has a minimised bump and self-levelling coverplate designed to create a surface level with the floor at all times regardless of its position in the movement cycle.

The ACTP system is suitable for environments such as hospitals and medical centres, indoor and outdoor public spaces, loading and service areas, retail centres, airports, hotels and stadiums.



- Load Rating AS1170.1 Retail Areas & Light Vehicles.
- Self Leveling Cover Plate.
- Foot-safe for Pedestrian Traffic.
- Structural Grade Aluminium 6061.
- Vertical Movement ±10mm.
- Standard Product Length = 4.8 metres.
- Ideal for areas transitioned by trolleys, pallet jacks and other wheeled equipment.
- Suit all floor finish types: tiles, carpet, stone, vinyl, concrete & epoxy floors.
- All installation fixings supplied.

# **Other Options**

- Recommended **Bedding Materials:** 
  - Pedestrian Traffic: Ramset<sup>™</sup> Premier Grout
  - Vehicle traffic: Miska FC122 **Epoxy Mortar**





# **Coverplate**



### **Environment**



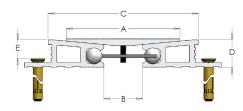
Pedestrian

Service Equipment

Vehicles

### Installation

Work method instructions provided on request, or we can provide contacts for certified installers in your area.



# **Product Specifications**

#### Block-out dimensions 40mm Deep x 110mm Wide each side.

| Part #    | A = Cov | er Plate | B = Gap |      |      |      | C = I | Exposed W | D     | E      |        |
|-----------|---------|----------|---------|------|------|------|-------|-----------|-------|--------|--------|
|           | Width   | Thick    | Min     | Mid  | Max  | Mvmt | Min   | Mid       | Max   | Height | Height |
| EJACTP70M | 120mm   | Varies   | 41mm    | 70mm | 99mm | 58mm | 159mm | 188mm     | 217mm | 29mm   | 20mm   |



# Miska™ ACHD Series - Aluminium

**Expansion Joint Cover System** 

**Technical Data Sheet** 

March 2020

# **Product Description**

The ACHD Heavy Duty Expansion Joint Cover System is designed for high load areas where aesthetics are also a consideration.

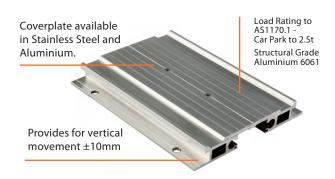
The ACHD is designed for environments such as convention and exhibition centres, stadiums, bulky goods retailers, back of house loading areas, pedestrian bridges and public spaces requiring service vehicles.

# Features

- High Load Rating AS1170.1 Car Park to 2.5t.
- Foot-safe for pedestrian traffic.
- Structural Grade Aluminium 6061.
- Vertical Movement ±10mm.
- Standard product length = 4.8 metres.
- Suits all floor finish types: tiles, concrete, epoxy, carpet, stone and vinyl.
- All installation fixings supplied.

# **Other Options**

- Stainless Steel Coverplate (See ACHDS Series data sheet).
- Recommended Bedding Materials:
  - Pedestrian Traffic: Ramset Premier Grout
  - Vehicle traffic: Miska FC122™ Epoxy Mortar





# **Coverplate**



# **Environment**

Vehicles

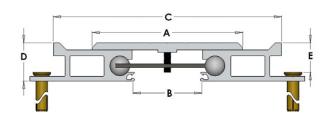
Indoor/Outdoor

Pedestrian

Service Equipment

# Installation

Work method instructions provided on request, or we can provide contacts for certified installers in your area.



# **Product Specifications**

#### Block-out dimensions 40mm Deep x 100mm Wide each side.

| Part #      | A = Cover Plate |       |      | B = Gap |       |      |       | Exposed W | D     | E      |        |
|-------------|-----------------|-------|------|---------|-------|------|-------|-----------|-------|--------|--------|
|             | Width           | Thick | Min  | Mid     | Max   | Mvmt | Min   | Mid       | Max   | Height | Height |
| EJACHD128AM | 128mm           | 6mm   | 12mm | 57mm    | 102mm | 90mm | 150mm | 195mm     | 240mm | 32.5mm | 25mm   |



# Miska™ MF Series 2

**Expansion Joint Cover System** 

**Technical Data Sheet** 

March, 2020

# **Product Description**

The MF Series 2 Expansion Joint System is designed for minimum rebate installations with a block-out of only 16mm high x 16mm wide.

Examples of Applications include shopping & retail centres, Hospital walkways & corridors, public buildings, indoor and outdoor public spaces.



### **Features**

- Foot-safe for Pedestrian Traffic.
- Minimum rebate required.
- Surface or rebate mounted.
- Ideal for retro fit-outs.
- Standard Length = 4.8 metres.
- Low maintenance though design simplicity.
- Economical solution for slab on ground applications.
- All installation fixings supplied.

Suits all floor finish types: tiles carpet, stone, vinyl, concrete and epoxy floors.





### **Coverplate**



Stainless Steel



Aluminium

# **Environment**

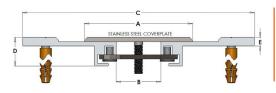


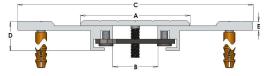
Pedestrian

Service Equipment

### Installation

**Work method instructions** provided on request, or we can provide contacts for certified installers in your area.





# **Product Specifications**

TDS Handbook | MiskaTM AUS & NZ

#### Block-out Dimensions: 16mm H x 16mm W each side.

| Part #    | A = Cov | er Plate |      | B =  | Gap  |      | C =   | Exposed W | D     | E      |        |
|-----------|---------|----------|------|------|------|------|-------|-----------|-------|--------|--------|
|           | Width   | Thick    | Min  | Mid  | Max  | Mvmt | Min   | Mid       | Max   | Height | Height |
| EJMFA075M | 75mm    | 3.5mm    | 7mm  | 31mm | 55mm | 48mm | 137mm | 161mm     | 185mm | 19.8mm | 6mm    |
| EJMFA100M | 100mm   | 3.5mm    | 20mm | 50mm | 80mm | 60mm | 150mm | 180mm     | 210mm | 19.8mm | 6mm    |
| EJMFS075M | 75mm    | 3mm      | 7mm  | 31mm | 55mm | 48mm | 137mm | 161mm     | 185mm | 19.8mm | 6mm    |
| EJMFS100M | 100mm   | 3mm      | 20mm | 50mm | 80mm | 60mm | 150mm | 180mm     | 210mm | 19.8mm | 6mm    |



# Miska™ MF-PC Series

**Expansion Joint Cover System** 

**Technical Data Sheet** 

March. 2020

# **Product Description**

The MF-PC Series Expansion Joint System is designed for minimum rebate installations with a block-out of only 16mm high x 16mm wide.

Examples of Applications include shopping & retail centres, Hospital walkways & corridors, public buildings, indoor and outdoor public spaces.



#### **Features**

- Foot-safe for Pedestrian Traffic.
- 1mm leading edge.
- Minimum rebate required.
- Surface mounted.
- Ideal for retro fit-outs.
- Standard Length = 4.8 metres.
- Low maintenance though design simplicity.
- Economical solution for slab on ground applications.
- All installation fixings supplied.

Suits polished concrete floors. Can be Surface to surface mounted with tiles, stone, vinyl, concrete and epoxy floors.





### **Coverplate**



Stainless Steel



Aluminium

# **Environment**



Indoor/Outdoor



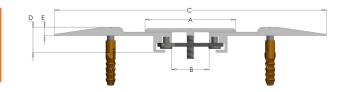
Pedestrian



Service Equipment

### Installation

Work method instructions provided on request, or we can provide contacts for certified installers in your area.



# **Product Specifications**

#### Block-out Dimensions: 16mm H x 16mm W each side

| Part #      | er Plate |       | B =  | Gap  |      | C = I | Exposed W | D     | E     |        |        |
|-------------|----------|-------|------|------|------|-------|-----------|-------|-------|--------|--------|
|             | Width    | Thick | Min  | Mid  | Max  | Mvmt  | Min       | Mid   | Max   | Height | Height |
| EJMFA075PCM | 75mm     | 3.5mm | 7mm  | 31mm | 55mm | 48mm  | 201mm     | 225mm | 249mm | 19.8mm | 6mm    |
| EJMFA100PCM | 100mm    | 3.5mm | 20mm | 50mm | 80mm | 60mm  | 214mm     | 244mm | 275mm | 19.8mm | 6mm    |
| EJMFS075PCM | 75mm     | 3mm   | 7mm  | 31mm | 55mm | 48mm  | 201mm     | 225mm | 249mm | 19.8mm | 6mm    |
| EJMFS100PCM | 100mm    | 3mm   | 20mm | 50mm | 80mm | 60mm  | 214mm     | 244mm | 275mm | 19.8mm | 6mm    |



# Miska™ RWMA Series

**Expansion Joint Cover System** 

**Technical Data Sheet** 

March, 2020

# **Product Description**

The RWMA Series Expansion Joint Cover System is a two piece coverplate that is easily installed for use with vinyl or tiled floor finishes.

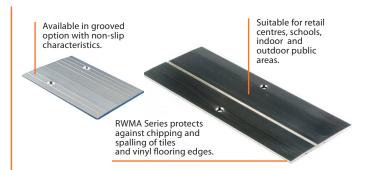
RWMA has good loading characteristics and is designed for large retail areas that experience loading by pallet trolleys, scissor lifts etc. Environments include: Shopping & retail centres, school, corridors, & public buildings, indoor and outdoor public spaces.



- Load Rating AS1170.1 Retail Areas.
- Pre-drilled and Countersunk.
- Available in mill finish aluminium or grooved annodised.
- Oversized fixing holes allow for masonry drilling and fixing through the plate whilst the RWMA system is in the installed position.
- Aluminium Structural Grade
- Standard Product Length = 3.6 metres.
- All installation fixings supplied.

# **Other Option**

**Recommended Bedding** Materials: Miska FC120™ Epoxy Mortar





### Material



### **Environment**

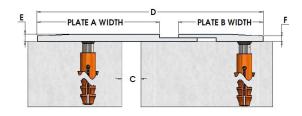
Indoor/Outdoor

Pedestrian

Service Equipment

### Installation

Work method instructions provided on request, or we can provide contacts for certified installers in your area.



# **Product Specifications**

#### No Block-out required.

| Part #   | Cover Plate |      |     | <b>C</b> = | Gap  |      | <b>D</b> = | Exposed W | E     | F      |        |
|----------|-------------|------|-----|------------|------|------|------------|-----------|-------|--------|--------|
|          | Α           | В    | Min | Mid        | Max  | Mvmt | Min        | Mid       | Max   | Height | Height |
| EJRWMAK  | 65mm        | 45mm | 0mm | 5mm        | 10mm | 10mm | 115mm      | 120mm     | 125mm | 4mm    | 3mm    |
| EJRWMAGK | 65mm        | 45mm | 0mm | 5mm        | 10mm | 10mm | 115mm      | 120mm     | 125mm | 4mm    | 3mm    |



# Miska™ RWMA - PC Series

Concrete To Concrete Expansion Joint Cover System

**Technical Data Sheet** 

March, 2020

# **Product Description**

The RWMA-PC Series Expansion Joint Cover System is a two piece coverplate solution that is easily installed on top of the concrete to concrete floor finish.

RWMA-PC has good loading characteristics and is designed for large retail areas that experience loading by pallet trolleys and scissor lifts. Environments include: Shopping & retail centres, schools, corridors & public buildings, Indoor and outdoor public spaces.

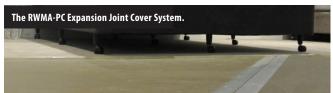
# 

- Load Rating AS1170.1 Retail Areas.
- · Pre-drilled and Countersunk.
- Oversized fixing holes allow for masonry drilling and fixing through the plate whilst the RWMA-PC system is in the installed position.
- Provides horizontal movement.
- Aluminium Structural Grade 6061.Standard Product Length
- Standard Product Length
   = 3.6 metres.
- All installation fixings supplied.

# **Other Option**

 Recommended Bedding Materials:
 Miska FC120™ Epoxy Mortar.





### **Material**



### **Environment**

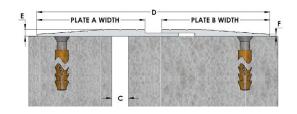
Indoor/Outdoor

Pedestrian

Service Equipment

# **Installation**

Work method instructions provided on request, or we can provide contacts for certified installers in your area.



# **Product Specifications**

#### No Block-out required.

| Part #    | Cover | Plate |     | <b>C</b> = | Gap  |      | <b>D</b> = | Exposed W | idth  | E      | F      |
|-----------|-------|-------|-----|------------|------|------|------------|-----------|-------|--------|--------|
|           | Α     | В     | Min | Mid        | Max  | Mvmt | Min        | Mid       | Max   | Height | Height |
| EJRWMAPCK | 65mm  | 65mm  | 0mm | 5mm        | 10mm | 10mm | 135mm      | 140mm     | 145mm | 4mm    | 1mm    |





# Miska™ CP Series

**Technical Data Sheet** 

**Car Park Expansion Joint Cover System** 

April, 2020

# **Product Description**

The CP Series Expansion Joint System is low-profile, waterproof and has a high point load capacity suitable for vehicle and pedestrian traffic without moving parts that generate noise.

The CP system is designed for environments such as: retail parking areas and multi level car parks, indoor and outdoor public spaces, pedestrian bridges & footpaths, heavy duty and emergency vehicle service areas.

# **Features**

- Load Rating AS1170.1 Retail Areas
  - Type F light road vehicle to, 2.5t, 13kN over 10000mm2.
  - Type G road vehicle to 10t, 31 kN over 25000mm2.
- Santoprene™ (TPV) Seal material.
- Quiet Transition & No Noise Propagation
- Foot safe for pedestrian traffic. Surface compliant to Aust Standards AS/NZS 4586 and 4663. Tested to
- Structural Grade Aluminium 6061.
- Vertical Movement ± 10 mm.
- Seals can be heat welded on-site.

- Protects joint edges from spalling.
- Aluminium Side Plates Standard length = 3.6m.
- Seal supplied in continuous lengths up to 25 metres.
- Fixings sit flush with the cover plate and do not form part of the expansion mechanism.
- System supplied with:
  - FC120™ Epoxy Mortar
  - FC480™ Lubricant Epoxy Adhesive
  - All installation fixings supplied.

#### Other Options

- FC122™ Epoxy Grout for repairing damaged decks.
- LF110™ Heat Welding Pad.





### **Material**

Aluminium Coverplate

Santoprene™ Seal

### **Environment**

Light/Heavy Duty Vehicle

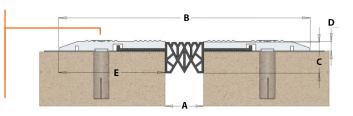
Indoor/Outdoor

Pedestrian

Service Equipment

# Installation

Work method instructions provided on request, or we can provide contacts for certified installers in your area.



# **Product Specifications**

#### No Block-out required.

| Part #   |      | A =  | Gap  |      | B =   | Exposed Wi | dth   | С      | D      | E     |
|----------|------|------|------|------|-------|------------|-------|--------|--------|-------|
|          | Min  | Mid  | Max  | Mvmt | Min   | Mid        | Max   | Height | Height | Width |
| EJCPS40K | 12mm | 25mm | 38mm | 26mm | 232mm | 246mm      | 260mm | 32mm   | 10mm   | 110mm |
| EJCPS65K | 30mm | 47mm | 63mm | 33mm | 250mm | 267mm      | 284mm | 52mm   | 10mm   | 110mm |
| EJCPS95K | 45mm | 69mm | 93mm | 48mm | 265mm | 290mm      | 315mm | 72mm   | 10mm   | 110mm |



# Miska™ CS Series

# **Technical Data Sheet**

**Expansion Joint Sealing System** 

March, 2020

# **Product Description**

The CS Series Compression Seals are high performance elastomers that combine the best attributes of vulcanised rubber - such as flexibility and low compression set - with the processing ease of thermoplastics, making it the ideal seal for expansion joints.

These properties allow heat welding on site to maintain a constant seal over any length and through angles & upturns.





# **Features**

- Foot safe for pedestrian traffic.
- Quiet Transition & No Noise Propagation.
- UV Stable.





#### Walls, Barriers & Upturns

Combining the CP Series Expansion Joint System with the CS Series Compression Seals, continuous seals can be created to run from the car park through to seal only for gutters, walls and barriers. (All trafficable areas should use CP Series). The ability to cut and join on site allows upturns that continue the waterproof integrity of the entire joint.

Please note, the CS Series seal must remain in compression to 90% of its nominal width.



### **Seal joining process** through heat welding

The santoprene seals can be quickly and easily heat welded on site to ensure a continuous seal through the joint, and enable upturns through gutters, barriers, columns & walls. Details of the process are available in the CP Installation and Work Method process.



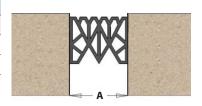






# **CS Series Compression Seal Data:**

| Part #  | A = Gap |      |      |      |  |  |
|---------|---------|------|------|------|--|--|
|         | Min     | Mid  | Max  | Mvmt |  |  |
| EJCS40K | 12mm    | 24mm | 36mm | 24mm |  |  |
| EJCS65K | 30mm    | 44mm | 58mm | 28mm |  |  |
| EJCS95K | 45mm    | 66mm | 86mm | 41mm |  |  |





# Miska™ SP Series

# **Technical Data Sheet**

**Car Park Expansion Joint Cover System** 

April, 2020

# **Product Description**

The SP Series Expansion Joint Cover System is for car parks, footpaths, pedestrian and service vehicle areas. It is a two piece system which provides a low profile, foot-safe expansion joint cover.

The SP Series is designed for environments such as: retail parking areas and multi level car parks, indoor and outdoor public spaces, pedestrian bridges & footpaths, heavy duty and emergency vehicle service areas.



### **Features**

- High Load Rating AS1170.1.
- Type F light road vehicle to, 2.5t, 13kN over 10,000mm<sup>2</sup>.
- Type G road vehicle to, 10t, 31kN over 25,000mm<sup>2</sup>.
- Low profile & foot safe for pedestrian traffic. Hi-grip knurled surface compliant to AS/NZS 4586 and 4663. Tested to P4 Rating.
- Fixings sit flush with the cover plate and do not form part of the expansion mechanism.
- Structural Grade Aluminium 6061.
- Standard Product Length = 3.6m.
- All installation fixings supplied.





### Material



### **Environment**

Light/Heavy Vehicles

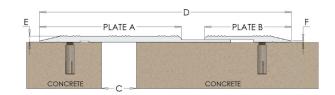
Indoor/Outdoor

Pedestrian

Service Equipment

# Installation

Work method instructions provided on request, or we can provide contacts for certified installers in your area.



# **Product Specifications**

#### No Block-out required if surface mounted.

| Cov      |         | Plate   | C = Gap |      |       | D = Exposed Width |       |       | E     | F      |        |
|----------|---------|---------|---------|------|-------|-------------------|-------|-------|-------|--------|--------|
|          | Plate A | Plate B | Min     | Mid  | Max   | Mvmt              | Min   | Mid   | Max   | Height | Height |
| EJSPA60K | 245mm   | 150mm   | 20mm    | 60mm | 100mm | 80mm              | 395mm | 435mm | 475mm | 10mm   | 2mm    |





# Miska™ FC120™

**Non Sag Epoxy Mortar Adhesive** 

# **Technical Data Sheet**

August, 2019

# **Product Description**

FC120™ Non Sag Epoxy Mortar is a versatile filler/ adhesive with high bond strength suitable for a variety of applications in the construction industry.

# **Applications / Uses**

- Bedding of surface-mounted expansion joint systems:
  - CP Series
  - SP Series
  - RWMA Series
- Epoxy adhesive for use with **Hypalon Water Barriers**
- Fills small voids in concrete
- Concrete crack filler

#### **Features**

- Tensile and Compressive Strength superior to concrete.
- Water washable before curing
- Easy to use equal parts by volume.
- Good chemical and water resistance.

### Chemical Resistance

Good resistance to alkalis and dilute acids, alcohol, petrol, xylol, mineral and vegetable oil, salt water.

# **Surface Preparation**

Metal - All steel surfaces must be Abrasive Blasted or mechanically abraded to meet or exceed AS1627.4 Abrasive Blast Cleaning to achieve Class 2-1/2 "Near White Metal" Blast Cleanness.

**Concrete** – All foreign matter including cement laitance should be removed. No surface moisture should be present. Shot blasting or similar is recommended for best results.

### Mix Ratio

By Volume - 1 Part A: 1 Part B. Mix until a uniform colour is achieved.

Packaging: 5 Kg Unit = approx. 4 litres

# Self Life/Storage

Store in a dry and cool place (5 -30°C). Shelf life is approximately 24 months in unopened containers.

### Clean up

Wash equipment with Isopropyl alcohol or equivalent solvent before hardening.





# **Product Specifications**

| Property                | Value                                    |
|-------------------------|--|
| Item Code:              | EPFC120-5                                |
| D                       | @ 25°C is workable for approx 30 minutes |
| Pot Life:               | @ 30°C is workable for approx 20 minutes |
|                         | @ 20°C Tack Free (3 hrs)                 |
| Cure Time:              | Full Cure 7 days                         |
|                         | Note: Will not cure below 10°C           |
| Max Operating Temp:     | 650C                                     |
| Tensile Strength:       | 35-45 MPa                                |
| Tensile Shear Strength: | 10-14 MPa                                |
| Compressive Strength:   | 100-122 mPa                              |
| Flexural Strength:      | 17-18 MPa                                |
| Modulus of Elasticity:  | 2 – 2.2 x 10 <sup>3</sup> MPa            |
| W . Al .:               | 0.5 - 0.8% by weight                     |
| Water Absorption:       | (ASTM D570 – 10 days @ 25°C)             |

# **Safety Instructions**

Avoid contact with skin and eyes. Wear protective clothing, gloves and eye protection and use barrier cream on exposed skin. Do not use in fully confined spaces without adequate ventilation. If swallowed do not induce vomiting, rinse the mouth immediately and drink plenty of water. Phone a doctor or poison information centre on 131126.

If in eyes, irrigate with water for at least 15 minutes and seek prompt medical attention. If on skin, wash with soap and water for at least 15 minutes and remove contaminated clothing. Fire Safety Avoid heat and sources of ignition. In event of fire use CO<sub>2</sub> or foam extinguisher. Do not use a water jet. For additional information, refer to the MSDS.



FC120 FOR PROFESSIONAL USE ONLY Protective gloves, clothes, and splash resistant glasses recommended. Direct contact with skin should be avoided as it may cause skin irritation. Fatal if taken internally.



# Miska™ FC122™

# **Technical Data Sheet**

**Epoxy Bedding** Mortar

March, 2020

### **Product Description**

FC122™ is a trowelable epoxy mortar with excellent chemical and abrasion resistance providing a dense, impervious surface.

FC122™ Epoxy Mortar is a high strength mortar and filler for the purpose of bedding mechanical expansion joint systems.

# **Applications / Uses**

Apply to new and old concrete floors as a protective topping, repair of spalled concrete and as a mortar for general construction work.

- **Bedding of Expansion** Joint systems
- Concrete joint nosing
- Concrete crack filler

### **Features**

- High abrasion resistance
- Excellent bond strength to concrete and steel
- Impervious surface that is easily cleaned
- Waterproof

### Chemical Resistance

Good resistance to alkalis and dilute acids, alcohol, petrol, xylol, mineral and vegetable oil, salt water.

# **Surface Preparation**

Metal – All steel surfaces must be Abrasive Blasted or mechanically abraded to meet or exceed AS1627.4 Abrasive Blast Cleaning to achieve Class 2-1/2 "Near White Metal" Blast Cleanness.

**Concrete** – All foreign matter including cement laitance should be removed. No surface moisture should be present. Shot blasting or similar is recommended for best results.

#### Mix Ratio

By Volume - 1 Part A: 1 Part B. Mix until a uniform colour is achieved. Then add filler (20 Kg Sand)

### **Packaging** 25 Kg Unit =

Yields approx. 15 litres

# Shelf Life/Storage

Store in a dry and cool place (5 - 30°C). Shelf life is approximately 24 months in unopened containers.

# Clean up

Isopropyl alcohol





# **Product Specifications**

| Property   | Value                          |  |
|--|--------------------------------|--|
| Item Code:   | EPFC12225                      |  |
| Solids:  | 100% by volume                 |  |
|  | @ 20°C - 40 minutes            |  |
| Pot Life:  | @ 30°C - 30 minutes            |  |
|  | @ 20°C Tack Free (3 hrs)       |  |
| Cure Time:   | Full Cure 7 days               |  |
|  | Note: Will not cure below 10°C |  |
| Compressive Strength:                              | 100 – 120 MPa                  |  |
| Flexural Strength in Tension:                      | 30 – 35 MPa                    |  |
| Adhesion to Concrete:                              | 4 – 5 MPa                      |  |
| Modulus of Elasticity:                             | 2 - 2.2 x 103 MPa              |  |
| Co-eff of Linear Thermal<br>Expansion at 20 - 50°C | 37 x 10-6 / °C                 |  |

# **Safety Instructions**

Avoid contact with skin and eyes. Wear protective clothing, gloves and eye protection and use barrier cream on exposed skin. Do not use in fully confined spaces without adequate ventilation. If swallowed do not induce vomiting, rinse the mouth immediately and drink plenty of water. Phone a doctor or poison information centre on 131126.

If in eyes, irrigate with water for at least 15 minutes and seek prompt medical attention. If on skin, wash with soap and water for at least 15 minutes and remove contaminated clothing. Fire Safety Avoid heat and sources of ignition. In event of fire use CO<sup>2</sup> or foam extinguisher. Do not use

For additional information, refer to the MSDS.



FC122 FOR PROFESSIONAL USE ONLY Protective gloves, clothes, and splash resistant glasses recommended. Direct contact with skin should be avoided as it may cause skin irritation. Fatal if taken internally.



# Miska™ FC480™

**Technical Data Sheet** 

Lubricant **Epoxy Adhesive** 

August, 2019

### **Product Description**

FC480™ is a lubricant epoxy adhesive for the installation of compression seals and bonds to concrete, polymer or steel armour nosing.

The high solids content of FC480™ fills minor voids in the joint surfaces to provide a waterproof bond to the seal.

### **Chemical Resistance**

Good resistance to alkalis and dilute acids, alcohol, petrol, xylol, mineral and vegetable oil, salt water.

### **Surface Preparation**

Concrete or polymer nosing's - Should be cured 80% of designed strength prior to application. Ensure the substrate surfaces are free of all loose material, i.e. dust and concrete laitance prior to the application of FC480™. Repair any voids and cracks using Miska™ FC120™ Epoxy Mortar.

All steel surfaces - Should be sandblasted to AS1627.4 SSPC-10, near white metal finish immediately before the application of the FC480™. Clean the substrate surfaces and the seal surfaces with Isopropyl alcohol or equivalent prior to applying FC480™. Apply a continuous coat of FC480<sup>™</sup> to the substrate surfaces and immediately install seals.

### Mix Ratio

By Volume - 1 Part A: 1 Part B. Mix until a uniform colour is achieved.

Packaging: 3.5kg Unit = approx. 3 litres

# **Shelf Life/Storage**

Store in a dry and cool place (10 - 40°C), keep from freezing. Shelf life is approximately 12 months in unopened containers.

# Clean up

Isopropyl alcohol



FC480™ is used for installing the compression seals on the Miska CP Series Expansion Joint System and the **CS Series Compression Seals.** 





# **Product Specifications**

| Property               | Value                                     |  |  |
|------------------------|---|--|--|
| Item code:             | EPFC480-3                                 |  |  |
| Elongation (Ultimate): | 150%                                      |  |  |
| Solids Content:        | 90% ± 5%                                  |  |  |
| Color:                 | Black or Grey                             |  |  |
| Application Temp:      | 5 – 50°C                                  |  |  |
| S.G.:                  | 1.20                                      |  |  |
|                        | Gel Time: 20-40 minutes                   |  |  |
| Curing Time:           | Initial Set: 2-4 Hours @ 250 <sup>c</sup> |  |  |
|                        | Full Cure: 8-12 Hours @ 250 <sup>c</sup>  |  |  |

# FC480 General Rate of Coverage

| Standard 1 Litre Unit | Depth | Approx Coverage |
|-----------------------|-------|-----------------|
| Compression Seals     | 50mm  | 27m per unit    |
| Compression Seals     | 75mm  | 20m per unit    |
| Compression Seals     | 100mm | 13.5m per unit  |

# **Safety Instructions**

Avoid contact with skin and eyes. Wear protective clothing, gloves and eye protection and use barrier cream on exposed skin. Do not use in fully confined spaces without adequate ventilation. If swall wed do not induce vomiting, rinse the mouth immediately and drink plenty of water. Phone a doctor or poison information centre on 131126.

If in eyes, irrigate with water for at least 15 minutes and seek prompt medical attention. If on skin, wash with soap and water for at least 15 minutes and remove contaminated clothing. Fire Safety Avoid heat and sources of ignition. In event of fire use CO, or foam extinguisher. Do not use a water jet.

For additional information, refer to the MSDS.



FOR PROFESSIONAL USE ONLY Protective gloves, clothes, and splash resistant glasses recommended. Direct contact with skin should be avoided as it may cause skin irritation. Fatal if taken internally. Keep from open flame.





# Miska™ LF110

# Technical Data Sheet

Santoprene® **Seal Welding** 

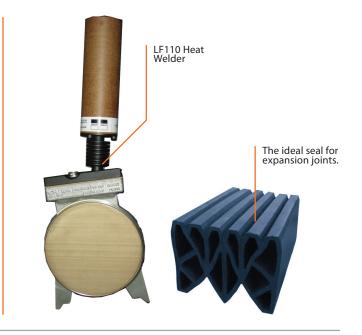
March. 2020

### **Product Description**

The Miska LF110 Heat Welder is a robust & reliable tool for the welding of Santoprene® seals for the Miska CP Series Expansion **Joint Cover Systems and CS Series Compression Seals.** 

# **Product Description**

- Item Code: ZSLF110
- 1400w, 240v Heat welder for Miska CP Series.
- Robust, reliable and low maintenance.
- Product weight: 4.1kgs
- 250mm diameter working surface, double sided heating pads.
- Adjustable temperature control.
- Adjuster screw in rear of handle. Clockwise to increase heat, counter clockwise to reduce.
- Orange light to indicate power on.
- Red light indicates pads are heating.
- Heater reaches working temperature in less than 10 minutes.
- Provides controlled uniform surface temperature.





### **Seal joining process** through heat welding

Santoprene seals can be guickly and easily heat welded on site to ensure a continuous seal through the joint, and enable upturns through gutters, barriers, columns & walls. Details of the process are available in the CP Installation and Work Method process.









# Recommended for use with the Miska CP Series **Expansion Joint System & CS Series Compression Seals.**

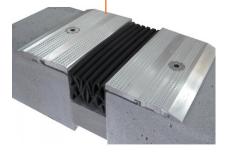
The Car Park (CP Series) Expansion Joint System incorporates a plate and seal design to provide a low profile, foot-safe and watertight construction joint cover solution.

This system utilises proven compression seal methodology and improves on traditional systems by incorporating a mechanically fixed side plate locking strip. The aluminium side plates reduce the seal footprint, eliminates concrete spalling and retains the seal.

# **Features**

- Load Rating AS1170.1 Retail Areas
  - -Type F light road vehicle to, 2.5t, 13kN over 10000mm<sup>2</sup>
  - -Type G road vehicle to 10t, 31 kN over 25000mm<sup>2</sup>
- Santoprene™ (TPV) Seal material
- Quiet transition & No noise propagation.
- **UV Stable**
- Foot safe for pedestrian traffic. Surface compliant to Aust Standards AS/NZS 4586 and 4663. Categorised as a "V" class surface (R11)

Load Rating to AS1170.1 -Car Park to 2.5t Structural Grade Aluminium 6061





# **Miska**<sup>™</sup> Hypalon Gland Water Barrier

Waterproofing Solutions

**Technical Data Sheet** 

August, 2019

# **Product Description**

The Miska Hypalon Gland Water Barrier is a synthetic rubber sheeting used in conjunction with Miska FC120 Adhesive as a two part system designed to stop the ingress of water to highmovement joints in building structures.

The Miska Hypalon Gland is supplied in standard roll widths of 200mm and 300mm.

# **Typical Waterproofing Applications**

- Multilevel Car Parks
- Multilevel Shopping Centres
- **Transit Centres**
- Stadiums and Platforms
- General Concrete Jointing applications

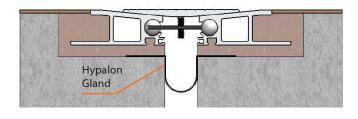
# **Key Features**

- Excellent UV resistance for outstanding weatherability in exposed applications.
- Hypalon barriers do not contain plasticisers that will leach out and cause brittleness or cracking.
- Not susceptible to environmental stress cracking (ASTM D 1693).
- Low coefficient of thermal expansion and contraction provides excellent dimensional stability and lay flat characteristics.
- Excellent chemical resistance to most industrial effluents.
- Roll Length = 25m

# **Edge Fixing Holes**

#### All Hypalon glands are supplied with edge fixing holes.

Edge fixing holes provide a "mechanical" key which aides installation. In load bearing situations e.g. where Miska Expansion Joint Cover Systems will be installed above the gland, edge holes allow the FC120 Adhesive to squeeze up through the holes and support the joint system.







# **Product Specifications**

| Property                | Value       |
|-------------------------|-------------|
| % Elongation:           | 350         |
| Tensile Strength (MPa): | 8           |
| Operating Temperature:  | -35 – 110°C |
| Specific Gravity:       | 1.32        |
| Shore A Hardness:       | 60          |

# **Hypalon Gland Sizing**

| Item Code | Hypalon<br>Width<br>(mm) | Thickness<br>(mm) | Min Gap<br>(mm) | Max Gap<br>(mm) |
|-----------|--------------------------|-------------------|-----------------|-----------------|
| HYP200UNC | 200                      | 1.0               | 30              | 100             |
| HYP300UNC | 300                      | 1.0               | 50              | 200             |



#### The Miska FC120 Non-sag Epoxy Mortar

has been chosen from the Miska range for its total compatibility with the Hypalon Gland in relation to adhesion. Other features include its non-sag quality enabling it to be used vertically. For further information, refer to the FC120 Data sheet.

FC120 - Mixed Yield: 1 x 5 Kg Unit = 4 Litres of Material, Usage is recommended at approx 2.0 mm thick x 50 mm per side giving an approx usage of 1 x 5 Kg Unit per 40 metres of Hypalon Gland laid.

Tack Free Cure – 3 Hours, Full Cure 7 days.



# Miska<sup>™</sup> Block-out & Anchoring Guide

**Expansion Joint Cover System** 

**Technical Data Sheet** 

March, 2020

### **Blockout Table**

Below is the typical block-out recommended for each joint and the approximate quantity of grout required per lineal metre to install the joint. (Please note volume of grout = block-out ( $d \times h \times 1m$ ) less extrusion volume  $\times 2$  (for both sides) (NGR = No Grout Required)

| Miska Joint System<br>Type   | Each                   | ı Side                        | Total volume of both sides      |                                   |                                  |  |
|------------------------------|------------------------|-------------------------------|---------------------------------|-----------------------------------|----------------------------------|--|
|                              | Blockout Depth<br>(mm) | Blockout Width (mm)           | Total Blockout<br>(litres/m)    | Extrusion Allowance<br>(litres/m) | Volume of bedding<br>(litres/m)  |  |
| AC2 Series                   | 40                     | 100                           | 9                               | 1.25                              | 7.75                             |  |
| ACHD Heavy Duty<br>Series    | 40                     | 110                           | 9.9                             | 4.55                              | 5.35                             |  |
| ACTP Series                  | 40                     | 110                           | 9.9                             | 4.55                              | 5.35                             |  |
| MF Series                    | 16                     | 16                            | 0                               | 0.42                              | NGR                              |  |
| CP Series<br>(Flush Mount)*  | 12                     | 93                            | 2.24                            | 1.8                               | 0.44                             |  |
| SPA Series<br>(Flush Mount)* | 20                     | Plate A – 80<br>Plate B – 237 | Plate A – 1.6<br>Plate B – 4.74 | Plate A – 0.74<br>Plate B – 2.31  | Plate A – 0.86<br>Plate B – 2.43 |  |

**Recommended Grout & Mortar:** • Ramset™ Premier Grout: 20kg yields approx. 11.7ltr • Miska FC122 Epoxy Mortar: 25kg yields approx. 15ltr \* Supplied as surface mount which can be converted to flush mount

# **Anchoring Guide**

Below is a guide to the anchoring and fixing details for each of our expansion joint covers. All products listed below are supplied with fixings as our standard offer.

| Product /<br>Series | Overall<br>Length | Fixings<br>per length | Anchor / Fixing<br>Centres | Fixing Type  | Fixing<br>Hole Size | Fixing Hole<br>Depth (Min) |
|---------------------|-------------------|-----------------------|----------------------------|--|---------------------|----------------------------|
| AC2 Series          | 4.8               | 22                    | 100/460460/100             | Dynabolt™ DP08060F (CSK 8mm x 60mm long)                         | 8mm                 | 70mm                       |
| ACHD Series         | 4.8               | 22                    | 150/500500/150             | Dynabolt™ DP10075F (CSK 10mm x 75mm long)                        | 10mm                | 85mm                       |
| ACTP Series         | 4.8               | 22                    | 150/500500/150             | Dynabolt™ DP10075F (CSK 10mm x 75mm long)                        | 10mm                | 85mm                       |
| CP Series           | 3.6               | 26                    | 50/250/300300/250/50       | DynaSet™ DSM12 Drop-in Anchor + M12 x 30mm<br>SS CSK Socket Head | 16mm                | 55mm                       |
| MF Series           | 4.8               | 34                    | 50/250/300300/250/50       | Ramplug™ DNP08 + 12G x 35mm SS CSK Self Tap                      | 8mm                 | 75mm                       |
| RWMA Series         | 3.6               | 26                    | 50/250/300300/250/50       | Ramplug™ DNP08 + 12G x 35mm SS CSK Self Tap                      | 8mm                 | 75mm                       |
| SPA Series          | 3.6               | 26                    | 50/250/300300/250/50       | DynaSet™ DSM12 Drop-in Anchor + M12 x 30mm<br>SS CSK Socket Head | 16mm                | 55mm                       |

Where possible, Miska Expansion Joint Systems are supplied with Ramset™ fixings.

For installation instructions of all joints, please contact your ramsetreid representative. It is recommended that you use a certified Miska Installer.



# Notes



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