
INTEGRATED SOLUTION GUIDE FOR TRANSPORT INFRASTRUCTURES





At ARDEX-QUICSEAL, we are the trusted solutions partner for civil engineering infrastructure across Singapore and the region. With a deep understanding of infrastructure demands, we deliver engineering-driven solutions designed to meet the challenges of today's fast-paced construction environment. From time-critical repairs to long-term durability enhancement, our solutions are developed to perform under the most demanding conditions.

STRUCTURAL STRENGTHENING SYSTEM



Our structural strengthening system restores and enhances the load-bearing capacity of aging infrastructure using high-performance, compatible materials. Designed for durability and long-term performance, it ensures structural integrity while minimizing stress on existing substrates.

ARDEX CE 510 NON-SHRINK GROUT

■ FEATURES

- Shrinkage compensated
- Fluid & pumpable
- High strength
- Low Permeability

■ APPLICATION

- Precast grouting
- Structural repairs
- Handrail fixing
- Machinery baseplates grouting



ARDEX CE 511 GP NON-SHRINK GROUT

■ FEATURES

- Dual shrinkage compensated
- Highly fluid & pumpable
- High strength
- Low Permeability

■ APPLICATION

- Precast grouting
- Structural repairs
- Handrail fixing
- Bridge bearing grouting

ARDEX CE 828 STRUCTURAL MICRO CONCRETE

■ FEATURES

- High ultimate strength
- Dual shrinkage compensated
- Fluid and pumpable
- Suitable for deep pours

■ APPLICATION

- Structural repair
- Reinstatement of honeycomb
- Bridge bearings
- Reinstatement of marine structures



ARDEX CE 901/902 ULTRA FLOW PT GROUT/ ULTRA FLOW PT GROUT ADDITIVE

■ FEATURES

- Ultra fluid and pumpable
- Shrinkage compensated
- Rapid strength gain
- Negligible bleed

■ APPLICATION

- Post tension cable grouting
- Micropile grouting
- General grouting
- Soil and rock grouting



ARDEX CE 707 SPRAYABLE HIGH BUILD SHOTCRETE

■ FEATURES

- Low rebound and minimal dust generation
- Low drying shrinkage
- High build-up
- Low electrical resistance

■ APPLICATION

- Slope stabilisation
- Repair of damaged marine structures
- Strengthening retaining walls
- Concrete protection



ARDEX CE 980 THIXOTROPIC GROUT

■ FEATURES

- Gravity resistant
- Long Term durability
- No segregation
- Long pump life
- High strength
- High load transfer to rock/ground

■ APPLICATION

- Rock bolt grouting
- Ground stabilisation
- Top-down grouting
- Void filling

QUICSEAL 515 POLYMER MODIFIED STRUCTURAL REPAIR MORTAR

■ FEATURES

- High bond strength to host concrete
- Shrinkage compensated
- Low drying shrinkage
- High build-up
- Low permeability

■ APPLICATION

- Suitable for vertical and horizontal repairs
- Repair of spalled or damaged concrete
- Repair of bridges, and other infrastructure
- Patching of honeycombs and surface defects



FAST TRACK REPAIR SYSTEM

Our fast-track repair system enables rapid strength development to minimize downtime and accelerate project completion. It is designed for time-critical applications such as roads, railways, and airport pavements requiring quick reinstatement.

ARDEX CE 580 RAPID SETTING HIGH STRENGTH GROUT

■ FEATURES

- Fluid and pumpable
- Dual shrinkage compensated
- High early and ultimate strength
- Chloride and sulphate resistant
- Low Permeability

■ APPLICATION

- Precast grouting
- Structural repairs
- Machinery baseplates grouting
- Bridge bearing grouting
- Any work requiring speedy return to service

ARDEX CE 826 RAPID CURING STRUCTURAL MICRO CONCRETE

■ FEATURES

- High early and ultimate strength
- Dual shrinkage compensated
- Flowable
- High chloride and sulphate resistance
- Suitable for deep pours
- Low Permeability

■ APPLICATION

- Structural repair
- Rigid pavement repair
- Reinstatement of defective concrete
- Precast grouting
- Any work requiring speedy return to service





ARDEX CE 750 RAPID SETTING HIGH BUILD REPAIR MORTAR

■ FEATURES

- High bond strength to host concrete
- Shrinkage compensated
- High early and ultimate strength
- Chloride and sulphate resistance
- High build-up
- Low permeability

■ APPLICATION

- Suitable for vertical and horizontal repairs
- Repair of spalled or damaged concrete
- Repair of bridges, marine and other infrastructure
- Patching of honeycombs and surface defects

ARDEX CE 910 RAPID CURING SEMI-RIGID PAVEMENT GROUT

■ FEATURES

- Rapid setting
- High fluidity and pumpable
- Rapid strength gain
- Shrinkage compensated
- Low permeability
- Excellent wear resistance

■ APPLICATION

- Concrete road pavement
- Heavy loading yards
- Road junctions
- Bus interchange



ADHESIVE AND COATING SYSTEM

Our adhesive and coating system delivers both structural bonding and surface protection for a wide range of infrastructure applications. From high performance match-cast bonding adhesives to protective coatings such as anti-carbonation and functional cycling track finishes, the system is designed for durability and reliability.



ARDEX WPM 335 EXTERNAL ANTI-CARBONATION FACADE MEMBRANE

■ FEATURES

- Water-based anti-carbonation waterproofing membrane
- Excellent adhesion to concrete surface
- Mold and fungi resistance
- Excellent UV resistance
- Excellent crack bridging properties

■ APPLICATION

- Building facades
- Viaducts
- Carparks
- Bridges
- Subways



ARDEX CE 601 HIGH STRENGTH COLOURED COATING

■ FEATURES

- Single component, water-based road – marking material
- Excellent UV resistance
- Skid resistance
- Excellent adhesion to concrete and asphalt
- Green label certified

■ APPLICATION

- Cycling tracks
- Bicycle lanes
- Walkways and footpaths
- Park connectors

■ COLOUR PALETTE

- | | | |
|------------|------------|--------------|
| ● RAL 1003 | ● RAL 3011 | ● RAL 6024 |
| ● RAL 6037 | ● RAL 7037 | ● RAL 9017 |
| ● RAL 9011 | ○ RAL 9016 | ● BS 20 E 56 |
| ● RAL 1023 | ● RAL 3020 | |



ARDEX CE 501 SEGMENTAL BONDING ADHESIVE

■ FEATURES

- Two-component solvent-free epoxy adhesive
- Excellent adhesion to damp and dry concrete surface
- Excellent sag resistance
- Long pot life
- Easy to apply

■ APPLICATION

- Sealing between match-cast precast segments
- Sealing of cracks
- Repair of concrete
- Bonding of dissimilar materials

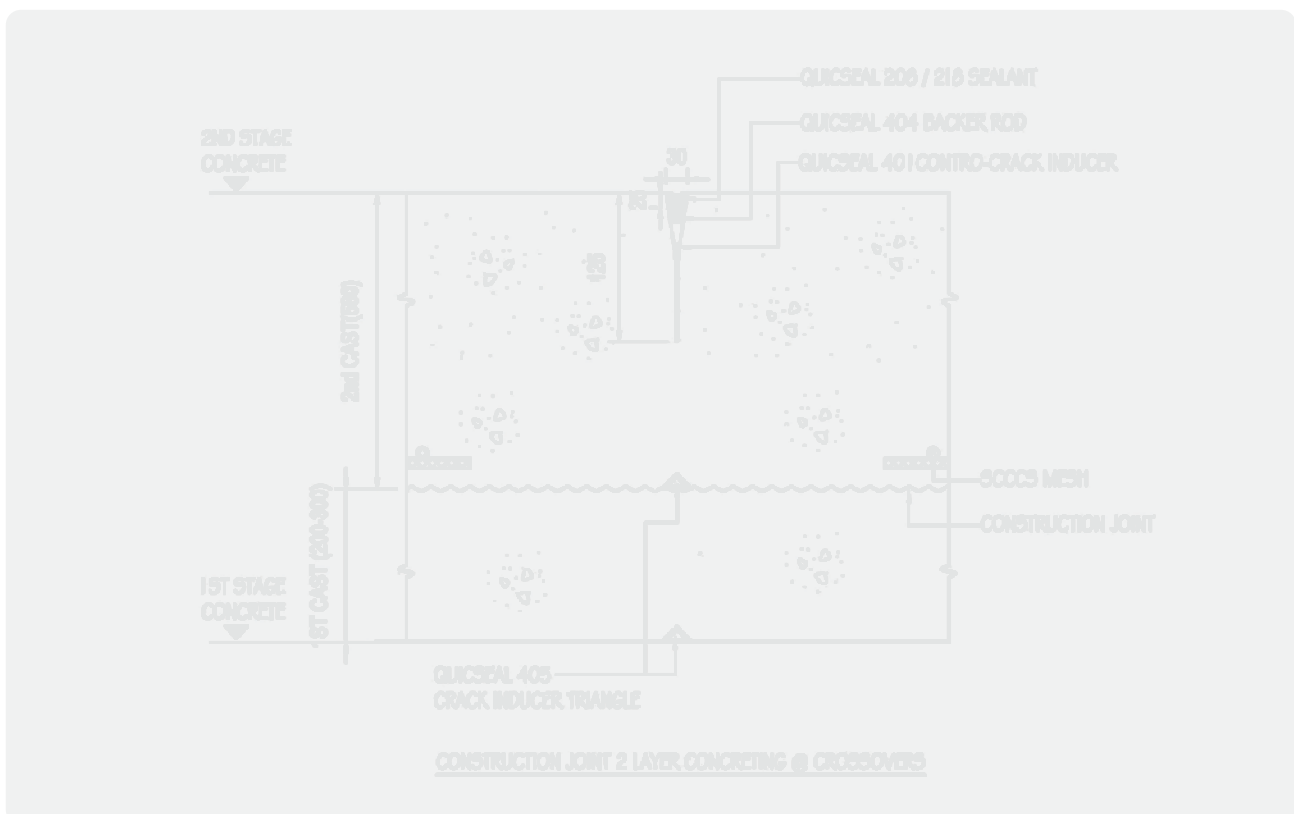
ARDEX P 507 WATER-BASED PRIMER AND CURING AGENT

■ FEATURES

- Water-based emulsion
- Easy to apply
- Environmentally friendly
- Retains water in concrete for hydration

■ APPLICATION

- Airport parking stands
- Wharfs and jetties
- Concrete columns and beams
- Precast structures and elements



PAVEMENT JOINT SEALING SYSTEM

Our pavement joint sealing system is designed to protect and extend the service life of concrete pavements by providing a liquid tight joint. Ideal for roads, bridges and airport pavements, the system ensures long-term performance and reduces maintenance requirements.

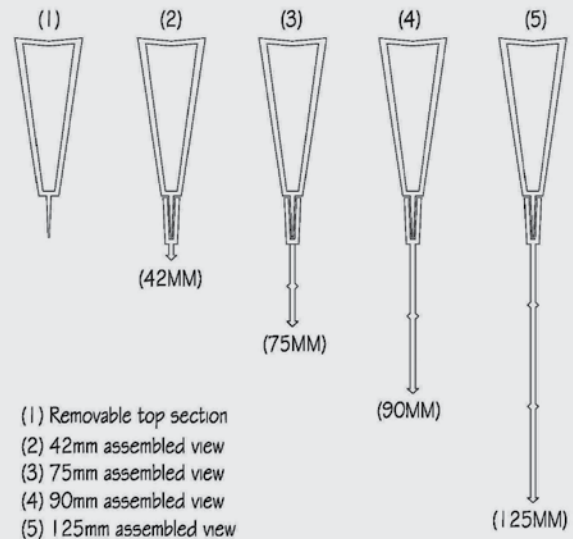
QUICSEAL 401 CONTRO-CRAC

■ FEATURES

- Rigid, polyvinyl chloride (PVC) material
- Reduce risks of random cracking in concrete
- Available in 4 different depths

■ APPLICATION

- Railway tracks
- Airport parking aprons
- Bridge decks
- Large concrete slabs



QUICSEAL 402 FIBREBOARD

■ FEATURES

- Compressible, non-extruding bitumen fibreboard
- Joint former for expansion joint in concrete structures
- Available in various thickness

■ APPLICATION

- Railway tracks
- Airport parking aprons
- Bridge decks
- Large concrete slabs

QUICSEAL 404 ML CLOSED CELL BACKER ROD

■ FEATURES

- Circular closed cell polyethylene foam
- Ideal as a bond breaker for joint sealant
- Available in various diameter to suit different joint widths

■ APPLICATION

- Expansion joints
- Precast concrete joints
- Bridge and road joints
- Airport aprons and runways

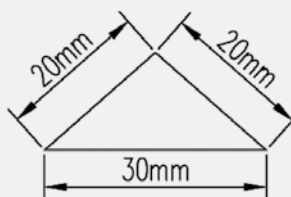
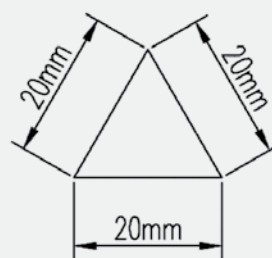
QUICSEAL 405 WATER DRIP LINE FORMER / CRACK INDUCER TRIANGLE

■ FEATURES

- Rigid, unplastized polyvinyl chloride (PVC) triangle piece
- Reduce risks of random cracking in concrete
- Available in 2m length

■ APPLICATION

- Railway tracks
- Airport parking aprons
- Bridge decks
- Large concrete slabs



QUICSEAL 406 POLYCEL-TYPE K

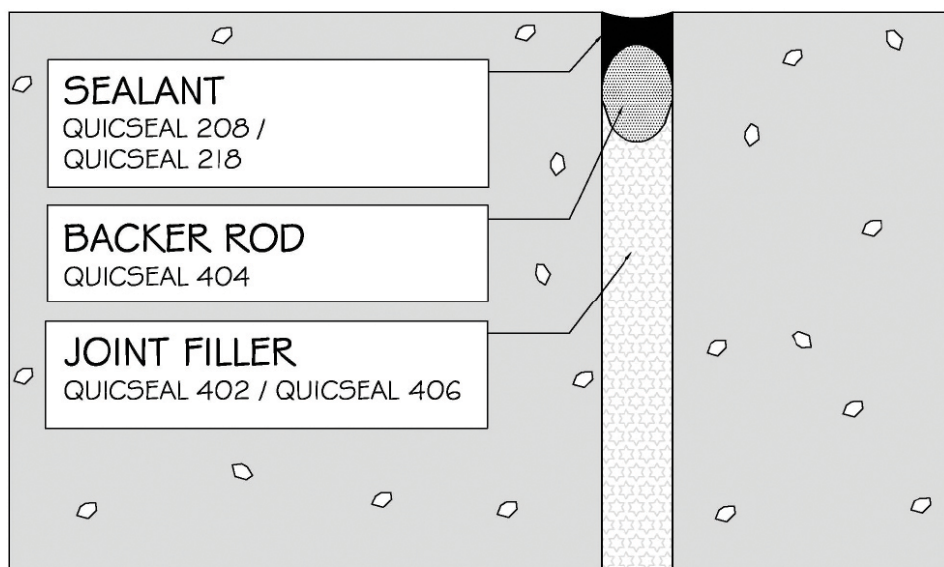
■ FEATURES

- Polyethylene joint filler board
- Non absorbent
- Available in various thickness

■ APPLICATION

- Railway tracks
- Airport parking aprons
- Bridge decks
- Large concrete slabs





QUICSEAL 208 TWO-PART POLYSULPHIDE JOINT SEALANT

■ FEATURES

- Two component, polysulphide-based sealant
- Available in pouring and gun grade
- Suitable for horizontal and vertical joints
- Resistant to motor fuels
- Excellent UV resistance

■ APPLICATION

- Railway tracks
- Petrol stations
- Roads and motorways
- Parking facilities
- Harbours

QUICSEAL 218 ELASTOMERIC PAVEMENT JOINT SEALANT

■ FEATURES

- Two component, self-levelling polysulphide-based sealant
- Suitable for horizontal joints and cracks in concrete
- Jet blast resistant
- Resistant to motor fuels
- Excellent UV resistance

■ APPLICATION

- Railway tracks
- Airport parking aprons
- Roads and motorways
- Parking facilities
- Harbours

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