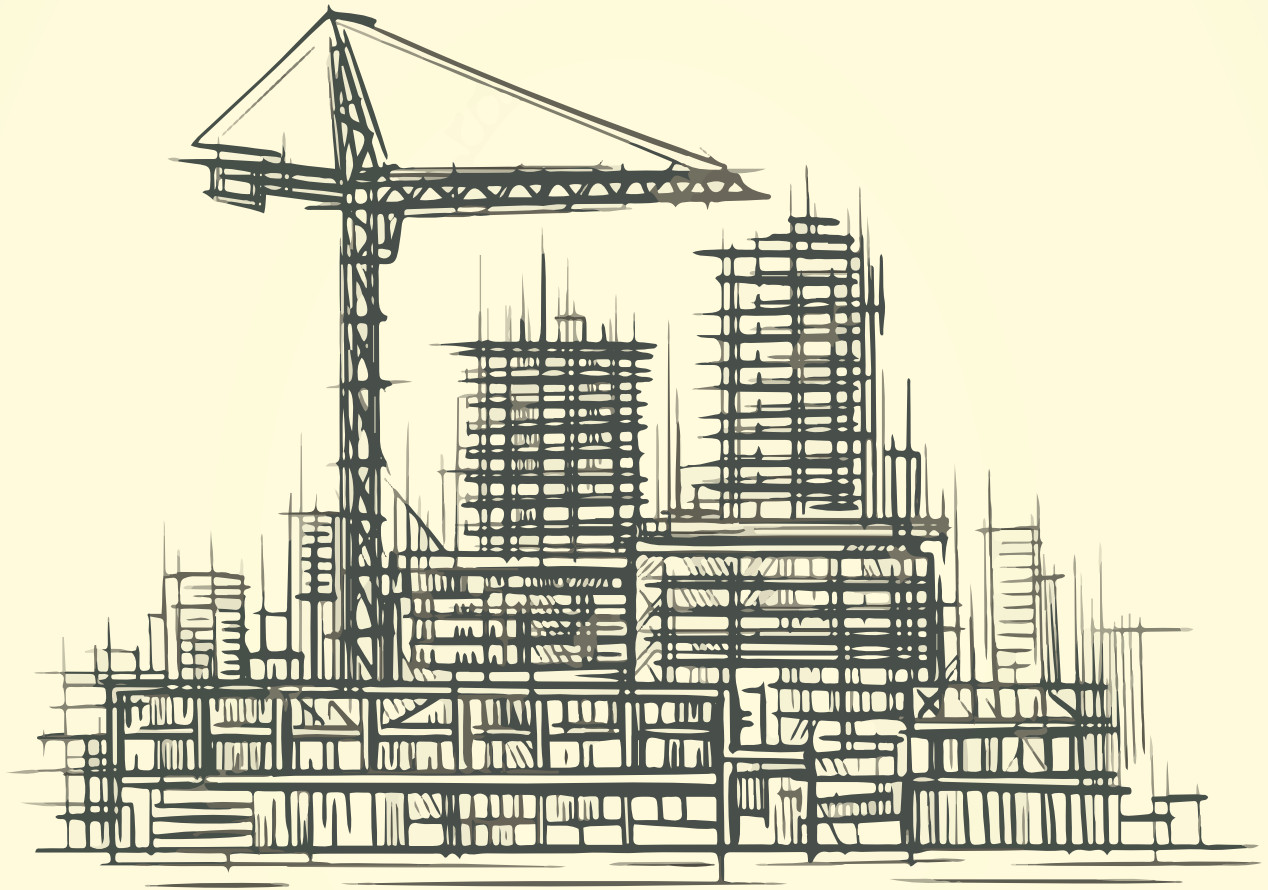


Innovation
in Construction Solution



INDEX
A PERFECT FIXING

3M

CHRYSO
SAINT-GOBAIN

CHEMOFAST[®]

people are proud

SYSTEM[™]
CONSTRUCTION LTD.

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CHEMOFAST Fixing Solution



CHEMOFAST[®]

Pure Epoxy EP 1000 585 ml

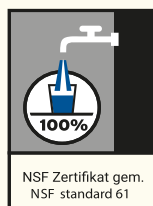


Properties and Benefits

- European technical assessment for bonded fasteners
- European technical assessment for post-installed rebar
- US-approval acc. to AC 308 in concrete
- Certificated for drinking water applications
- For heavy anchoring-doweling and post-installed rebar connection
- Fire resistance test report
- Overhead application
- Waterfilled bore holes
- Suitable for attachment points with small edge- and axial distances due to an anchoring free of expansion forces
- High chemical resistance
- Low odour
- High bending and pressure strength
- Cartridge can be reused up to the end of the shelf life by replacing the static mixer or resealing cartridge with the sealing cap
- State-of-the-art ingredients, complies with the latest REACH regulations, free off Phenol

Applications

Base material: cracked and non-cracked concrete, light-concrete, porous-concrete, solid masonry, hollow brick, natural stone (Attention! natural stone, can discolour; shall be checked in advance. Wet & dry application.



Vinylester VK 420 ml

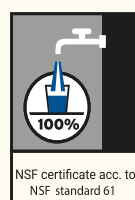
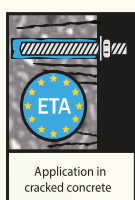
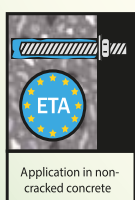


Properties and Benefits

- European Technical Assessment for bonded fasteners
- European Technical Assessment for injection anchors for use in masonry
- European Technical Assessment for post-installed rebar
- US-approval
- Certificated for drinking water applications
- Fire resistance
- For heavy anchoring-doweling and post-installed rebar connection
- Overhead application; waterfilled bore holes
- Suitable for attachment points with small edge- and axial distances due to an anchoring free of expansion forces
- High chemical resistance
- Low odour
- High bending and pressure strength
- Cartridge can be reused up to the end of the shelf life by replacing the static mixer or resealing cartridge with the sealing cap.

Applications

Suitable for the fixation of facades, roofs, wood constructions, metal constructions; metal profile, columns, beams, consoles, railings, sanitary devices, cable trays, piping, post-installed rebar connection (reconstruction or reinforcement), etc.



INDEX Mopure, A Perfect Fixing



INDEX Mopure 600 ml

High Strength Pure Epoxy Resin



#		
MOPURE600	600 ml	12



Homologado hasta M30
Approuvé jusqu'à M30
Aprovado até M30



Characteristics:

- Structural application
- Two 300ml, side by side cartridge
- Suitable for use in cracked and non-cracked concrete with all anchoring elements
- ETA-Approved for 10-32 mm rebars
- Fire resistance reports for threaded bars and reinforcing bars
- Structural connections with post installed rebar (e.g. extension / connections to walls, slabs, stairs, columns, foundations etc.)
- Seismic approval for use in seismic applications
- Used for high loads
- Pure epoxy & easy installations for wet & dry application.



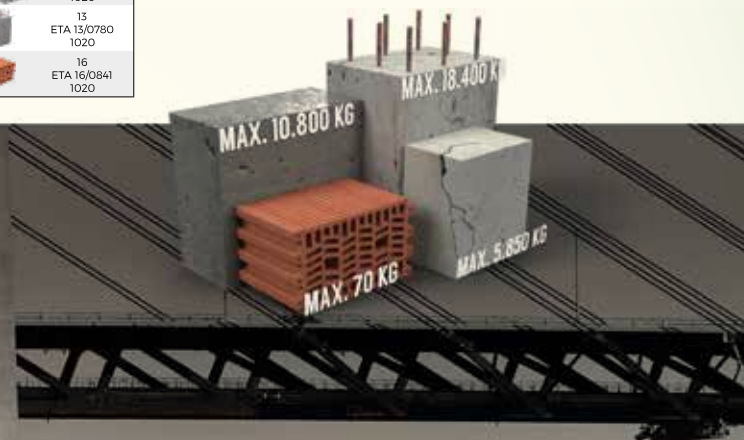
INDEX Epoxy MO-H Hybrid Resin 410 ML



Técnicas Expansivas S.L.
C/ Segador 13. Logroño, Spain
DoP MOH - www.indexfix.com

	14 ETA 14/0138 1020
	13 ETA 13/0780 1020
	16 ETA 16/0841 1020

#		
MOH300	300 ml	12
MOH410	410 ml	12



Homologado hasta M30
Approuvé jusqu'à M30
Aprovado até M30



Characteristics:

- Structural applications
- Working life of 50 and/or 100 years.
- Assessed for use in masonry.
- Use for high loads, static or quasi-static. seismic loads C1.
- Valid for dry, wet and flooded holes.
- For large metric sizes, retaining walls.
- Fixing of building substructures.
- For fixing enginery, balconies, awnings, shelving units, billboards, catenaries, safety barriers, railings, handrails, etc.



CHRYSO Construction Solutions



CHRYSO
SAINT-GOBAIN

Chryso New Generation Multi Range Super plasticizing Admixture – Delta G712 (Admixture)



DESCRIPTION: • A wide scale of dosage • A moderate water reduction • Better flow and retention • Homogenous concrete.

USE: • All cement and cementitious material. • Esp. for Ready Mix Concrete • Single admixture for wide range of concrete • Concrete using moderate to high SCM • To make regular concrete better.

COLOR: Brown

PACK SIZE: 225 Kg drum

Chryso New Generation Plasticizing & Integral Waterproofing Admixture – Delta D717 WP



DESCRIPTION: • A wide scale of dosage • A moderate water reduction • Better flow and retention • Homogenous concrete • Integral Waterproofing

USE: • Single admixture for wide range of concrete. • Concrete using moderate to high SCM. • To make regular concrete better. • Water retaining structure. • Concrete permeability reduction

COLOR: Brown

PACK SIZE: 20 Kg drum

Chryso Normal Setting Integral Waterproofing Admixture –WP XL (Water Proofing Admixture)



DESCRIPTION: • Ensures complete water repellent concrete. • Eliminates / Reduces dampness from the plastered surface of the brick work. • Protects concrete from weak acid / salt solution, oil and hydrocarbons. • Prevents/Reduces sweating, efflorescence, saltpeter action. • Resists fungal growth on the plastered surface of the brick.

USE: In rendering/plastering work on all brick walls. In silos, basement structures and for damp-proof course in residential buildings. As an integral damp proofing/waterproofing compound in concrete for roof, slab etc. In marine structures and sea-facing buildings.

COLOR: Brown

PACK SIZE: 20 Kg drum

Chryso Crystalline Integral Waterproofing Compound– CWA 10 (Waterproofing compound)



DESCRIPTION: • Mixed with concrete at the time of batching • Protects concrete exposed to harsh conditions • An integral system application • Voids are sealed permanently • Non-toxic and non-hazardous for drinking water and aquatic / marine life. • Compatible with all types of concrete plasticizers / superplasticizers.

USE: Foundations, Subway systems, Pre-cast structures, Sewage treatment plants, Tunnels and, underground structures, Dams, Swimming pools and reservoirs, Plastering of exterior walls, Bridge decks, columns, beams, etc. Roof and podium slabs and any other areas where high hydrostatic pressure is present.

COLOR: Brown

PACK SIZE: 20 kg laminated HDPE bag

Chryso SBR Latex Based All Purpose Water Proofing and Bonding Compound – Struco Latex



DESCRIPTION: • Ensures complete water repellent concrete. • Eliminates/Reduces dampness from the plastered surface of the brick work. • Protects concrete from weak acid / salt solution, oil and hydrocarbons. • Prevents / Reduces sweating, efflorescence, saltpeter action. • Resists fungal growth on the plastered surface of the brick.

USE: In rendering / plastering work on all brick walls. In silos, basement structures and for damp-proof course in residential buildings. As an integral damp proofing /waterproofing compound in concrete for roof, slab etc. In marine structures and sea-facing buildings

COLOR: Milky White Liquid

PACK SIZE: 5 kg can

Chryso Two Part Acrylic Polymer Based Elastomeric Waterproof Coating – Tapelastic



DESCRIPTION: • Resistant to UV (Ultra-Violet) rays. Develops excellent bond with building materials • Prevents peeling and blistering. Prevent penetration of salts into concrete and mortar. • Unaffected by chemical attacks. • Highly durable in continuous wet service condition. • Properties improve with age. • Versatile product–used for waterproofing, bonding agent and repair mortar.

USE: Damp patches on walls, to seal joints through which water can enter and areas where a quick solution for waterproofing and damp proofing is required. Can be reinforced with fiber glass mats

COLOR: Milky White, Grey

PACK SIZE: 15 kg kit

Chryso Non-Shrink High Strength Ready to Use Cementitious Free Flow Grout- Excem V1



DESCRIPTION: • EXCEM V1 Grout develops high compressive strength, • Controlled expansion to ensure positive surface contact and low water permeability. • Quickly develops high compressive strength to facilitate early reinstatement. • Zero water permeability. • Chloride and iron free, hence no rusting or staining on exposed edges. • Premixed, addition of water is only needed. • Easy to pour free flowing and self-leveling nature;

USE: Machine and Column foundation, Anchorage of bolt and steel bar, Grouting of bearing pads, Base plate grouting of rolling mills in steel plants.

PACK SIZE: 25 Kg laminated HDPE bag

Chryso Single Component High Strength Pre-mixed Flowable Micro Concrete- Excem MC60



DESCRIPTION: • Controlled expansion to ensure positive surface contact and low water permeability. • Chloride and iron free, hence no rusting or staining on exposed edges. • Pre-mixed, addition of water is only needed. • Easy to pour free flowing and self-leveling nature; it can be pumped or poured into restricted locations.

USE: EXCEM MC60 is a cementitious repair compound which is used to reinstate damaged and deteriorate concrete for structural repairs and strengthening.

PACK SIZE: 25 Kg laminated HDPE bag

Chryso Solvent Free Epoxy Resin Based Thixotropic Bonding Agent –DP Bonding Agent



DESCRIPTION:

- Provides a permanent bond
- Cures in both dry and damp conditions.
- Thixotropic. Can be applied on vertical and overhead surfaces without sagging
- Easy to mix and apply
- Excellent adhesion to most building material

USE: Can be used as bonding agent for mortars, renders, stone, steel, iron etc.

COLOR: White, Black.

PACK SIZE: 3 kg kit

Chryso Pre-Mixed Non-Metallic Dry Shake Floor Hardener- Emalite SOF



DESCRIPTION:

- Excellent wear resistance.
- Can achieve abrasion resistant floor surface.
- Impact resistance 2 to 3 times more than plain concrete.
- Non-metallic in nature, can be used safely for dry as well as wet areas

USE: Specially recommended in heavy engineering factories or as workshop floor toppings, hangers, car parks, in warehouses and gangways where frequently trolleys with metal wheels or forklifts carrying heavy load.

PACK SIZE: 25 Kg laminated HDPE bag

Acrylic Polymer Based Elastomeric Heavy Duty Waterproof Coating- Proof Acrylic



DESCRIPTION:

- Easy application; Application by brush, roller and squeegee at site.
- Elastomeric in nature; up to 2mm crack bridging capacity.
- UV Resistance- No yellowing in sun rays exposure.
- Excellent resistance to carbon dioxide, acid rain, and alkali solution.
- Desired high Tensile strength can be achieved by providing single / multilayer glass fiber cloth
- Excellent resistance to dirt pick up.
- No VOC (Volatile Organic Compound).

Use: Waterproofing of old as well as new flat / slope concrete roof/ terrace/ podium , Refurbishment of old concrete roof like brick bat coba, concrete screed/plaster, asphalt coating, Old APP/SBS membrane, etc. Waterproofing / protective coating of metal/ asbestos sheet roof

Available packaging: 20 kg Plastic Bucket

Chryso Polymer Modified Cement Based Concrete Surface Fairing Compound- Excem SC



DESCRIPTION:

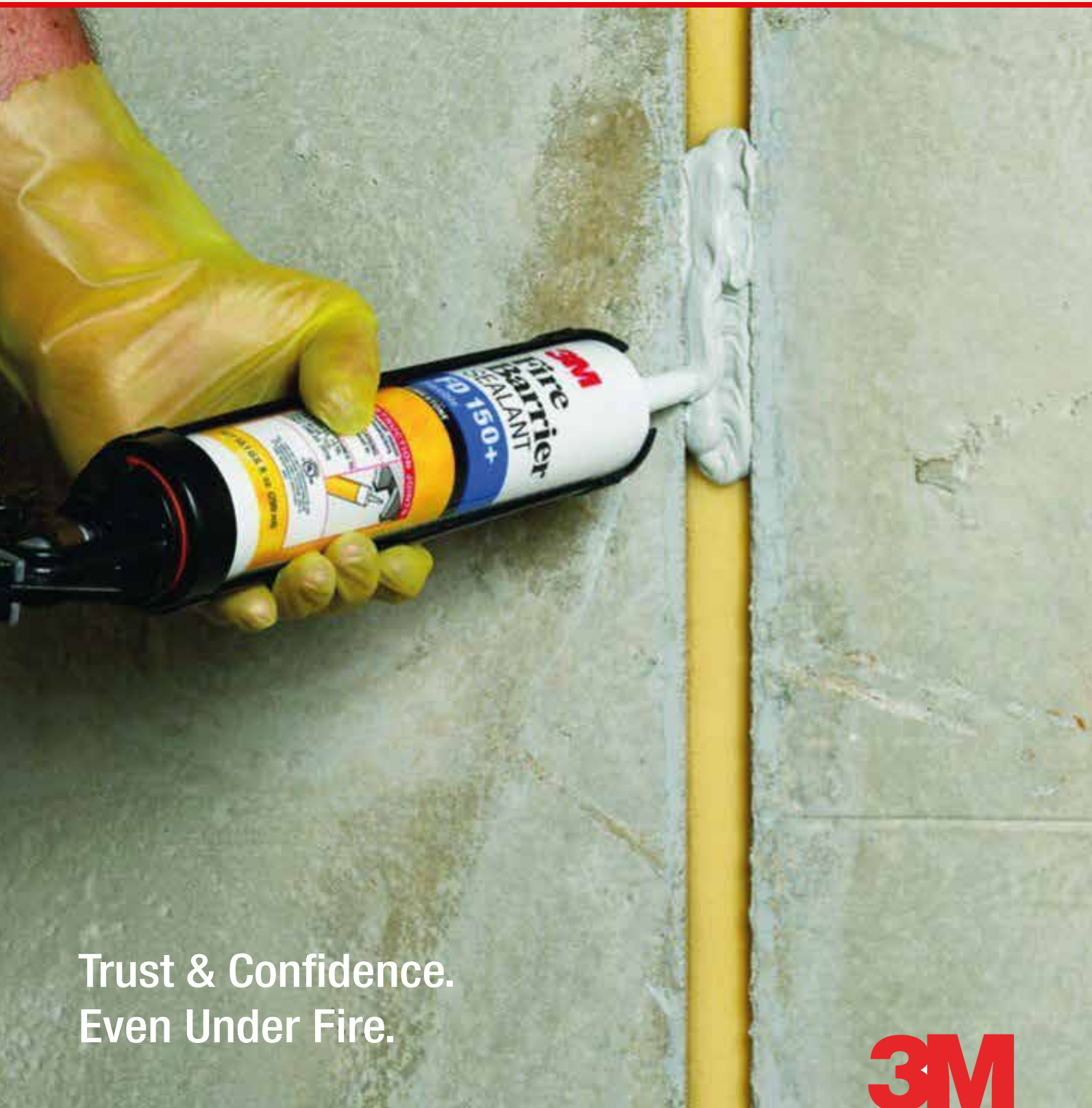
- Chloride free and non-metallic, hence no rusting or staining on exposed edges.
- Excellent Bond to the concrete and steel substrate
- No water permeability.
- Provides maximum protection against corrosion and carbonation

USE: EXCEM-C is used as an admixture for Injection Grouting to effectively waterproof and stop leaks in underground structures, basements, tunnels, lift wells, retaining walls, dams, water reservoirs, pressure ducts and other water retaining structures. It is also recommended for grouting pre-stressed members

PACK SIZE: 20 kg laminated HDPE bag

3M Passive Fireproofing

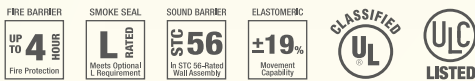
Through-Penetration || Construction Joint || Flexible Wrap System



Trust & Confidence.
Even Under Fire.



3M Fire Barrier Sealant FD 150+



DESCRIPTION: • Firestop tested up to 3 hours in accordance with ASTM E 814 (UL 1479). • Fire Resistive Joint System tested up to 4 hours in accordance with ASTM E 1966 (UL 2079) • Easy cleanup • Safe, solvent-free: fully cured, continuous seal with ±19% dynamic joint movement capability • Single-part formulation • **Fast-drying:** approximately in 30-60 minutes • **Paintable** (best results obtained after 72 hour cure) • Excellent adhesion

USE: Sealing construction joints *Through penetrations such as metallic pipes, conduits, power and communication cables

COLOR: Limestone

PACK SIZE: 298 ml cartridge, 591 ml sausage, 4.5 gallon drum

3M Fire Barrier Sealant IC 15WB+



DESCRIPTION: • Firestop tested up to 3 hours according to ASTM E 814 (UL 1479) • Minimizes noise transfer • Easy cleanup • Expands when heated to seal around items consumed by fire • **Fast drying:** tack-free in approximately 8-12 minutes @ 73°F (23°C) • High caulk rate: 2000g/min. with 1/4 in. nozzle

USE: Typically used in mechanical, electrical and plumbing applications to firestop openings penetrations in fire-rated floors, ceilings or walls: metallic pipe, plastic pipe (excluding CPVC), conduit, cable, cable trays, subways, combos, insulated pipe and HVAC duct penetrations.

COLOR: Yellow

PACK SIZE: 298ml cartridge, 591ml sausage, 4.5 gallon drum

3M Fire Barrier Sealant CP 25WB+



DESCRIPTION: • Firestop tested up to 3 hours according to ASTM E 814 (UL 1479) • Minimum noise transfer • Provides L-Rating (smoke seal) • Easy Cleanup • Expands when heated to seal around items consumed by fire • **Fast drying** approximately 8-12 minutes @ 73°F (23°C) • **Paintable** (best results obtained after 72 hour cure).

USE: Typically used in mechanical, electrical and plumbing applications to firestop openings penetrations in fire-rated floors, ceilings or walls: metallic pipe, plastic pipe (excluding CPVC), conduit, power and communication cable, insulated pipe and HVAC duct penetrations.

COLOR: Red

PACK SIZE: 298 ml cartridge, 591 ml sausage, 4.5 gallon drum

3M Fire Barrier Water Tight Sealant 1000 NS



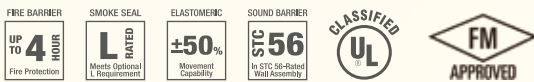
DESCRIPTION: • Firestop tested up to 3 according to ASTM E 814 (UL 1479) • Joint System Fire Resistance with ASTM E 1966 (UL 2079) • Meets UL Water Leakage Test • Minimizes noise transfer • ±25% dynamic joint movement capability • **Re-enterable / repairable** • Prevents moisture and water migration • Provide excellent adhesion on construction surfaces, including: Concrete, gypsum, metal, plastic (CPVC compatible), wood and insulation.

USE: Used to firestop blank openings, dynamic and static construction joints and items that pass through fire-rated floor or wall assemblies: metallic pipes, non-metallic pipes, cables, insulated pipes,

COLOR: Grey

PACK SIZE: 298 ml cartridge, 591 ml sausage, 4.5 gallon drum

3M FireDam Spray FD200



DESCRIPTION: • Fast drying. • Up to 4-hour fire protection in construction joints as per ASTM E 1966 (UL 2079) • Up to 2-hour fire protection for through penetration systems per ASTM E 814 (UL 1479) • Highly elastic material up to ±50% movement capabilities • High-cling properties help prevent sagging • Dries when exposed to the atmosphere • Uniform seal formation in heat and cold conditions.

USE: Ideal for sealing perimeter joints (curtain walls), construction joints and through penetrations. Recommended for fire stopping areas that require large coverage.

COLOR: Grey, Pack Size: 5 gallon drum

3M Fire Barrier Mortar



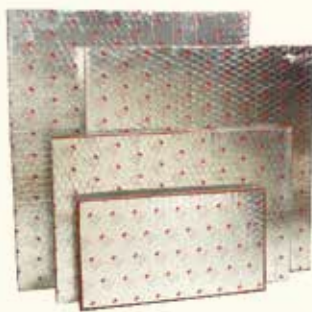
DESCRIPTION: • Variable mix ratio: permits self-leveling as well as no-sag (no forming) application consistencies • Excellent adhesion: will bond to concrete, metals, wood, plastic and cable jacketing • Re-enterable • Lower maintenance • Asbestos-free

USE: Used to seal mechanical and electrical service penetrations, blank opening

COLOR: Grey

PACK SIZE: 44 lb. bag

3M Fire Barrier Composite Sheet CS-195+



DESCRIPTION: • Firestop up to 4 hours with ASTM E 814 (UL 1479) • Expands when heated to seal around items consumed by fire Protection • UL-classified • Lightweight: easy to handle • Re-enterable for new or retrofit installations • Easy to fasten: bolt-punch or drill-through • No mixing or damming • Versatile: can be fit to irregular shapes • Thermally conductive • Easy to install using common trade tools

USE: Can be used to seal a variety of penetration types including but not limited to: cable bundle, metal pipe, plastic pipe and conduit, insulated metal pipe and blank opening.

SIZE: 36 inch x 36 inch

3M Fire Barrier Collar Ultra Plastic Pipe

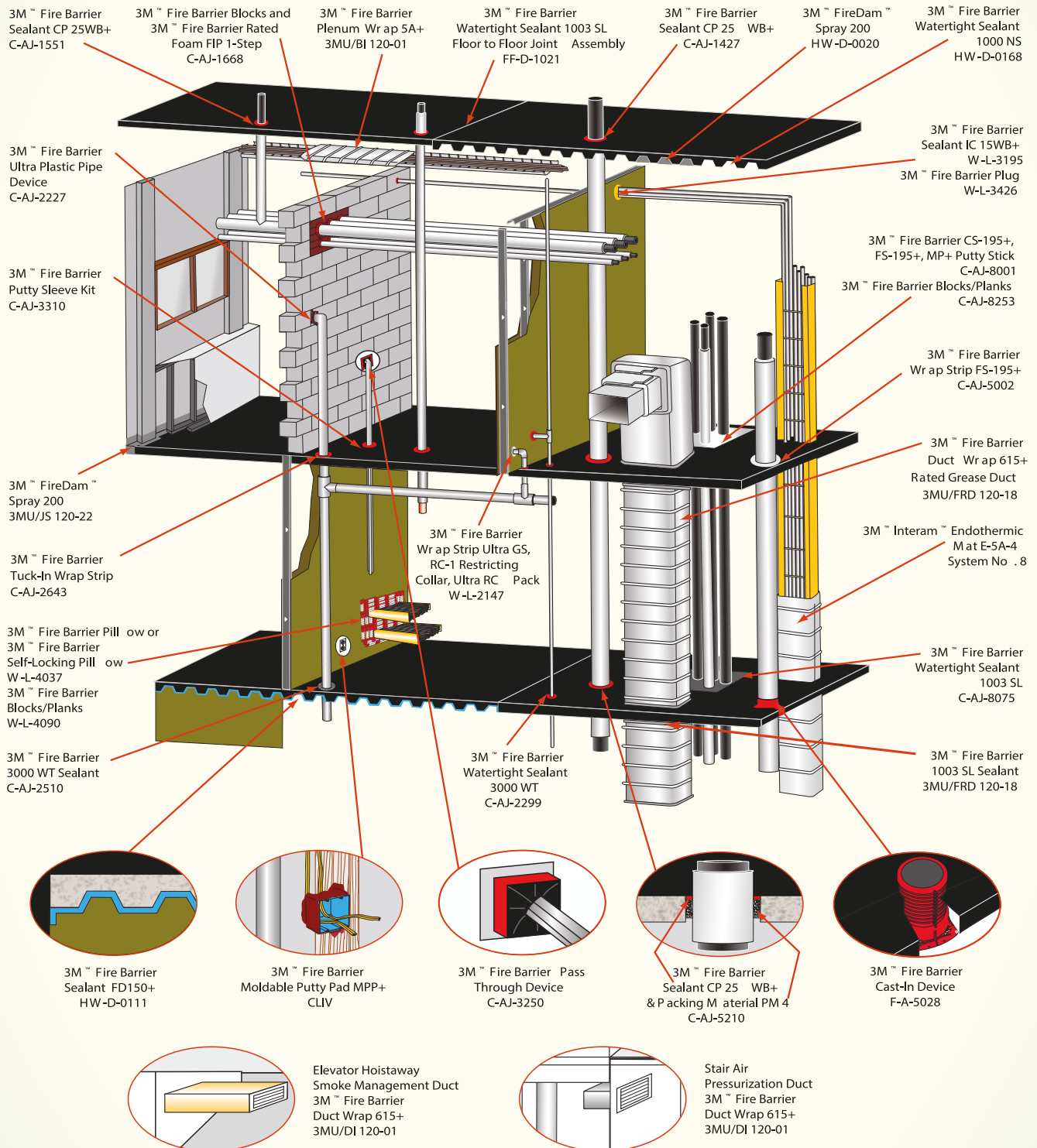


DESCRIPTION: • Up to 3-hour fire ratings when tested in accordance with ASTM E814 (UL1479) • Ultra-fast anchoring system (optional) • One piece assembly for quick and easy installation • Factory-made helps ensure quality consistency • UL Classified: meets code requirements universally recognized • Easily identified red color (fire rated device)

USE: Can be used to seal CCPVC, PVC, CPVC, FRPP, PVDF, ccABS and ABS pipes penetrating up to 3-hour fire rated assemblies.

SIZE: 6 inch / 4 inch / 3 inch / 2 inch / 1.5 inches

3MTM Fire Protection Products Typical Applications — Commercial Construction



The listed systems are typical applications only. Please refer to the volume of your 3M specification guide for your specific application or use the 3M System Selector available at 3M.com/firestop

OUR SERVICES (Construction)



Canopy work: MASJID-UT-TAQWA



Proposed PAIKPARA JAME masjid..
(on going) 11275 sq.ft



Anchor bolts fabrication for shed building



RCC casting



Steel Frame work



Retrofitted column at factory building



Retrofitting work



Rebar Fabrication

OUR SERVICES (Products based)



Our Services :

Construction services

- Building construction
- R.C.C & steel frame structure
- Architectural drawing
- Structural drawing
- Building retrofitting & renovation
- Detailed engineering assessment (DEA) & design
- BOQ & estimation

Product services

- Epoxy supply and anchor fixing solutions
- Passive fireproofing
- Water proofing and concrete repair work
- PU / Epoxy flooring, floor hardening, expansion joint work
- Daimond core system & core compressive strength test work
- Post-installed rebar connection with epoxy work

Our SCL Team



Our Respected CLIENTS



Sister Concerns:

SYSTEMS AND SOLUTIONS
POWERTECH CORPORATION
ERIQ BUILDING SOLUTIONS LIMITED

SYSTEM CONSTRUCTION LIMITED

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