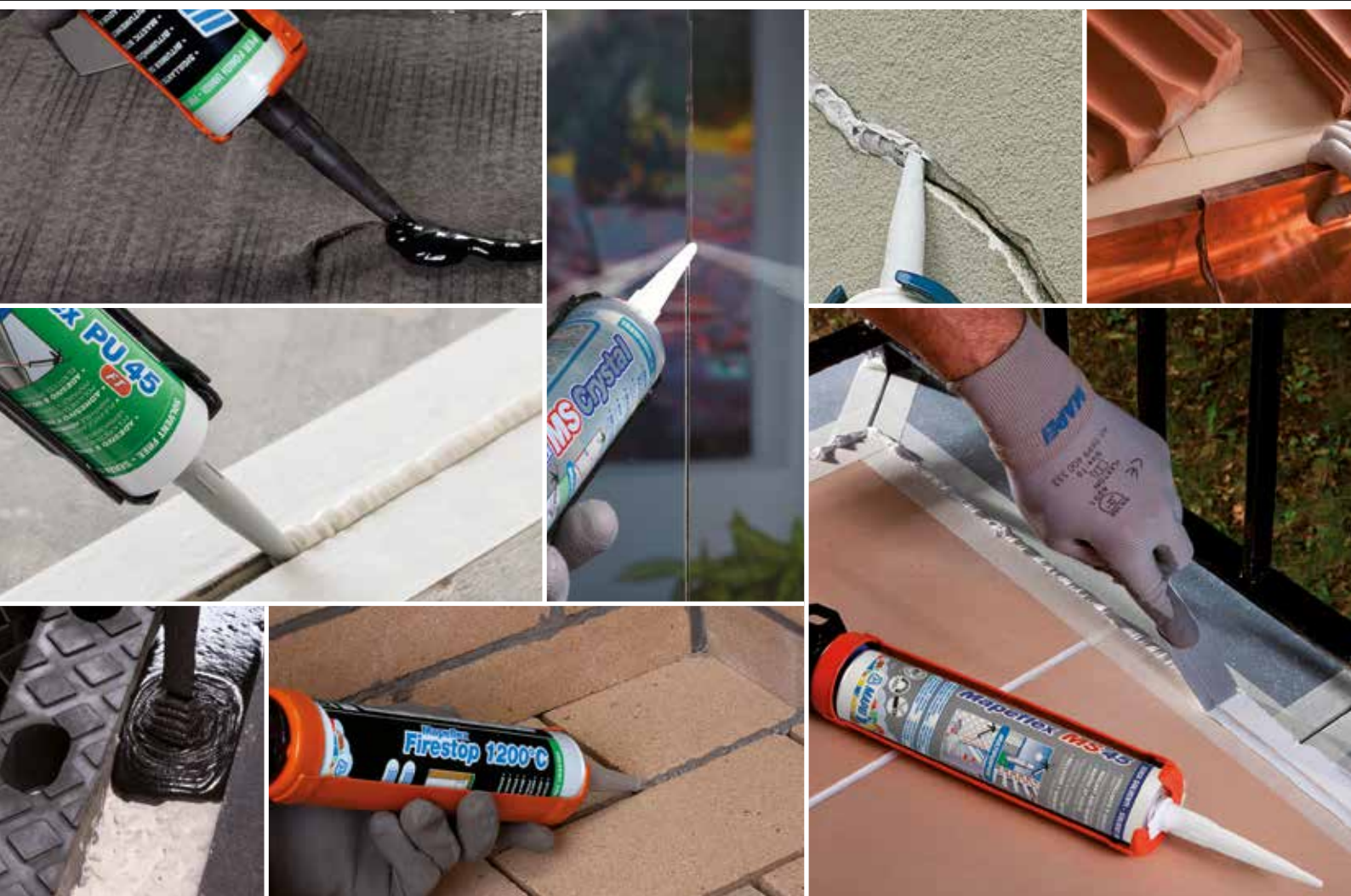


# SELECTION CHART FOR ELASTIC SEALANTS AND ADHESIVES



# WHAT SEALANTS ARE USED FOR

A multitude of building components are used to construct modern buildings. These components are often prefabricated and made from different types of material, which means they also have widely differing physical and mechanical characteristics and behaviour.

This is why, when assembling such components, a certain amount of **space should be left around their perimeter** so that differing levels of **thermal movement can take place unimpeded** to avoid uncontrolled deformation or damage. These spaces are known as **building joints**. To **waterproof joints against atmospheric agents** it is necessary to employ suitable products that are both adhesive and deformable: **elastic sealants**.

## THE CHEMISTRY OF SEALANTS

Elastic sealants are chemical products that are intended to **guarantee the continuity of a waterproof seal** in internal and external surfaces in correspondence with the gaps or spaces that form the joints.

There are many specific sealants available **to meet all possible requirements**, and they are formulated with different types of polymers according to the varying mechanical, thermal and chemical loads and actions the joints are exposed to, the different types of building materials employed, the various application situations and conditions and the aesthetic results required.

## USERS OF SEALANTS

Elastic sealants are used by all professionals working in the building industry whose work involves having to hermetically seal joints, cracks and gaps. Sealants also differ according to the specialisation of each different end user and various types are available, such as one-component and two-component sealants, thixotropic and hi-flow sealants, rapid and slow-curing sealants, and coloured or paintable sealants.



## CONSUMPTION CHART LITRES OF SEALANT PER LINEAR METRE OF JOINT

■ recommended section

|             |      | width in mm |      |      |      |      |      |      |      |      |      |
|-------------|------|-------------|------|------|------|------|------|------|------|------|------|
|             |      | 5           | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   |
| depth in mm | 5    | 0.03        | 0.05 | 0.08 | 0.10 | 0.13 | 0.15 | 0.18 | 0.20 | 0.23 | 0.25 |
|             | 10   | 0.05        | 0.10 | 0.15 | 0.20 | 0.25 | 0.30 | 0.35 | 0.40 | 0.45 | 0.50 |
|             | 12.5 | 0.06        | 0.13 | 0.19 | 0.25 | 0.31 | 0.38 | 0.44 | 0.50 | 0.56 | 0.63 |
|             | 15   | 0.08        | 0.15 | 0.23 | 0.30 | 0.38 | 0.45 | 0.53 | 0.60 | 0.68 | 0.75 |
|             | 17.5 | 0.09        | 0.18 | 0.26 | 0.35 | 0.44 | 0.53 | 0.61 | 0.70 | 0.79 | 0.88 |
|             | 20   | 0.10        | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 | 1.00 |
|             | 22.5 | 0.11        | 0.23 | 0.34 | 0.45 | 0.56 | 0.68 | 0.79 | 0.90 | 1.01 | 1.13 |
|             | 25   | 0.13        | 0.25 | 0.38 | 0.50 | 0.63 | 0.75 | 0.88 | 1.00 | 1.13 | 1.25 |

## CONSUMPTION CHART LINEAR METRES SEALED PER 300 ML CARTRIDGE

■ recommended section

|             |      | width in mm |     |     |     |     |     |     |     |     |     |
|-------------|------|-------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|             |      | 5           | 10  | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50  |
| depth in mm | 5    | 12.0        | 6.0 | 4.0 | 3.0 | 2.4 | 2.0 | 1.7 | 1.5 | 1.3 | 1.2 |
|             | 10   | 6.0         | 3.0 | 2.0 | 1.5 | 1.2 | 1.0 | 0.9 | 0.8 | 0.7 | 0.6 |
|             | 12.5 | 4.8         | 2.4 | 1.6 | 1.2 | 1.0 | 0.8 | 0.7 | 0.6 | 0.5 | 0.5 |
|             | 15   | 4.0         | 2.0 | 1.3 | 1.0 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 | 0.4 |
|             | 17.5 | 3.4         | 1.7 | 1.1 | 0.9 | 0.7 | 0.6 | 0.5 | 0.4 | 0.4 | 0.3 |
|             | 20   | 3.0         | 1.5 | 1.0 | 0.8 | 0.6 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 |
|             | 22.5 | 2.7         | 1.3 | 0.9 | 0.7 | 0.5 | 0.4 | 0.4 | 0.3 | 0.3 | 0.3 |
|             | 25   | 2.4         | 1.2 | 0.8 | 0.6 | 0.5 | 0.4 | 0.3 | 0.3 | 0.3 | 0.2 |

## CONSUMPTION CHART LINEAR METRES SEALED PER 600 ML SOFT CARTRIDGE

■ recommended section

|             |      | width in mm |      |     |     |     |     |     |     |     |     |
|-------------|------|-------------|------|-----|-----|-----|-----|-----|-----|-----|-----|
|             |      | 5           | 10   | 15  | 20  | 25  | 30  | 35  | 40  | 45  | 50  |
| depth in mm | 5    | 24.0        | 12.0 | 8.0 | 6.0 | 4.8 | 4.0 | 3.4 | 3.0 | 2.7 | 2.4 |
|             | 10   | 12.0        | 6.0  | 4.0 | 3.0 | 2.4 | 2.0 | 1.7 | 1.5 | 1.3 | 1.2 |
|             | 12.5 | 9.6         | 4.8  | 3.2 | 2.4 | 1.9 | 1.6 | 1.4 | 1.2 | 1.1 | 1.0 |
|             | 15   | 8.0         | 4.0  | 2.7 | 2.0 | 1.6 | 1.3 | 1.1 | 1.0 | 0.9 | 0.8 |
|             | 17.5 | 6.9         | 3.4  | 2.3 | 1.7 | 1.4 | 1.1 | 1.0 | 0.9 | 0.8 | 0.7 |
|             | 20   | 6.0         | 3.0  | 2.0 | 1.5 | 1.2 | 1.0 | 0.9 | 0.8 | 0.7 | 0.6 |
|             | 22.5 | 5.3         | 2.7  | 1.8 | 1.3 | 1.1 | 0.9 | 0.8 | 0.7 | 0.6 | 0.5 |
|             | 25   | 4.8         | 2.4  | 1.6 | 1.2 | 1.0 | 0.8 | 0.7 | 0.6 | 0.5 | 0.5 |

# ACCESSORY ITEMS

### DISPENSERS FOR SEALANTS

- Hand-held pro-grade guns
- Battery pro-grade guns
- Pneumatic pro-grade guns
- Battery peristaltic pump



### PRE-FILLING FOR JOINTS

Foam polyethylene cords, available in various diameters, for pre-filling joints.



### ADHESION PROMOTERS

Primers to increase the bond strength of sealants on different building materials.



# MAPEI RANGE

Thanks to a deep knowledge of the needs of its final users, Mapei created a wide and specialised range of products, divided in different polymer families with performances, packagings, colours and prices that can meet all the needs of the most specialised and demanding users.

|         |                                                              | ACETIC SILICON SEALANTS                         |                |            |               | NEUTRAL SILICON SEALANTS |            |            | ACRYLIC AND OTHER POLYMERS SEALANTS |              |               |                  |                          |
|---------|--------------------------------------------------------------|-------------------------------------------------|----------------|------------|---------------|--------------------------|------------|------------|-------------------------------------|--------------|---------------|------------------|--------------------------|
|         |                                                              | Mapesil U                                       | Mapesil Z Plus | Mapesil AC | Mapesil 300°C | Mapesil BM               | Mapesil LM | Mapesil Gp | Mapeflex AC4                        | Mapeflex ACS | Mapeflex AC P | Mapeflex AC-FR 2 | Mapeflex Firestop 1200°C |
| SEALING | internal                                                     | shutter boxes and fittings                      |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | glass and fittings                              |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | sanitary fittings, bathrooms, kitchens          |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | tiles and skirting                              |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | stone coverings                                 |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | joints for pedestrian floors                    |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | joints for vehicular floors                     |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | cracks and slits                                |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | structural, contraction and fillet joints       |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | sterile environments, food, drinking water      |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | production areas                                |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | paintable sealants                              |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         | external                                                     | fittings and wall openings                      |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | glass and fittings                              |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | fire-break, refractory, high temperature joints |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | joints on façades                               |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | metalwork, roofs, coverings                     |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | seals between different materials               |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | cracks and slits                                |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | swimming pools and damp environments            |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | balconies, terraces, flat roofs                 |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | car parks, airports, squares                    |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | road joints                                     |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | canals, basins, hydraulic works                 |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | storage tanks, sewage plants                    |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         |                                                              | paintable sealants                              |                |            |               |                          |            |            |                                     |              |               |                  |                          |
| BONDING | skirtings, board coverings, wire casing, decorative elements |                                                 |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         | bathroom elements, worktops                                  |                                                 |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         | plaques and signs                                            |                                                 |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         | window sills, parapets                                       |                                                 |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         | isolating sheets                                             |                                                 |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         | wooden panels and coverings                                  |                                                 |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         | high-resistance bondings                                     |                                                 |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         | ultra-fast bondings                                          |                                                 |                |            |               |                          |            |            |                                     |              |               |                  |                          |
|         | roof tiles                                                   |                                                 |                |            |               |                          |            |            |                                     |              |               |                  |                          |



ideal application



possible application

POLYURETHANE AND EPOXY-POLYURETHANE SEALANTS

HYBRID SEALANTS

| Mapeflex<br>Blackfill | Ultrabond<br>Super Grip | Mapeflex<br>PU 35 CR | Mapeflex<br>PU 40 | Mapeflex<br>PU 45 FT | Mapeflex<br>PU 50 SL | Mapeflex<br>PU 70 SL | Mapeflex<br>PU 70 NS | Mapeflex<br>PU 6S | Mapeflex<br>E-PU 21 SL | Mapeflex<br>E-PU 30<br>NS | Ultrabond<br>PU Strong | Mapeflex<br>MS 45 | Mapeflex<br>MS Crystal | Ultrabond<br>MS Rapid | Mapeflex<br>MS 40 |
|-----------------------|-------------------------|----------------------|-------------------|----------------------|----------------------|----------------------|----------------------|-------------------|------------------------|---------------------------|------------------------|-------------------|------------------------|-----------------------|-------------------|
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# TYPICAL APPLICATIONS

## *Mapeflex PU35 CR* **AGGRESSIVE LIQUIDS**

ELASTIC POLYURETHANE SEALANT WITH HIGH CHEMICAL RESISTANCE



### Main uses

- Depuration plants
- Safety tanks
- Chemical industries

### Benefits

- Good hardness and elasticity
- High chemical resistance to a wide spectrum of substances
- Thixotropic, also for vertical application
- **Certified chemical resistance**
- Very low certified environmental emissions
- Paintable

## *Mapeflex PU35 CR* **FOOD ENVIRONMENTS, CLEANROOMS, DRINKING WATER**

ELASTIC POLYURETHANE SEALANT WITH HIGH CHEMICAL RESISTANCE



### Main uses

- Food industry environments
- Cleanrooms, hospitals, laboratories
- Electronic industries
- Drinking water storage tanks

### Benefits

- Good hardness and elasticity
- High chemical resistance to a wide spectrum of substances
- Thixotropic, also for vertical application
- Certified chemical resistance
- **Very low certified environmental emissions**
- Paintable

## *Mapeflex MS 45* **ELASTIC SEALS AND BONDS**

HYBRID SEALANT AND ADHESIVE WITH A HIGH MODULUS OF ELASTICITY



### Main uses

- Sealing of door and window fittings perimeters
- Sealing cracks and slits
- Elastic bonds

### Benefits

- Compatible with various materials, including when damp or wet
- Good bonding and flexible performances
- Odourless, very low certified environmental emissions
- Paintable with elastomeric paints
- Low dirt pick-up

## *Mapeflex PU 45 FT* **INDUSTRIAL FLOORS**

POLYURETHANE SEALANT AND ADHESIVE WITH HIGH MODULUS OF ELASTICITY



### Main uses

- Industrial floors
- Warehouses and deposits
- Sidewalks

### Benefits

- Fast hardening, no swelling
- High resistance to traffic
- Easy to apply
- High bond strength
- Paintable

## *Mapesil AC* **DAMP ENVIRONMENTS AND SWIMMING POOLS**

MOULD- RESISTANT PURE ACETIC SILICON SEALANT WITH LOW MODULUS OF ELASTICITY



### Main uses

- Swimming pools
- Bathrooms and kitchens
- Sanitary fittings and showers

### Benefits

- **Pure silicon for higher resistance and durability**
- **Extended resistance to moulds**
- **35 colours coordinated with Mapei grouts range**
- Low modulus of elasticity
- High thermal and chemical resistance
- Very low certified environmental emissions

## *Mapeflex pu 70 SL* **AIRPORTS, SERVICE AREAS, CAR PARKS**

HI-FLOW HYDROCARBONS RESISTANT POLYURETHANE SEALANT WITH A LOW MODULUS OF ELASTICITY



### Main uses

- Airports
- Service areas and car parks
- Safety tanks

### Benefits

- **Certified for use in airports**
- **Resistant to contact with hydrocarbons**
- High yield if applied with **Mapeflex SPP** pump
- Low modulus of elasticity

## *Mapesil LM* **STONE FLOORS AND COVERINGS**

NEUTRAL MOULD-RESISTANT PURE SILICON SEALANT WITH A LOW MODULUS OF ELASTICITY



### Main uses

- Stone façades
- Stone floors and coverings
- Bathrooms, kitchens, swimming pools

### Benefits

- **Certified for use on natural stone**
- High durability
- Low modulus of elasticity
- Resistant to moulds
- 10 colours coordinated with Mapei grouts range
- Very low certified environmental emissions

## *Mapeflex AC-FR 2* **FIRE-BREAK JOINTS**

ACRYLIC FIRE-RESISTANT SEALANT



### Main uses

- Environments subject to the risk of fire
- Warehouses for flammable materials
- Public buildings

### Benefits

- **Certified as EI fire resistant up to +240°C**
- **Certified for reaction to fire C-S2-d0**
- Easy to apply
- Paintable
- Very low certified environmental emissions

# PRODUCT FAMILIES

The different polymers employed in the production of elastic sealants for building determine the typical performance characteristics of each product, having its strengths and weaknesses. Here below some of them.

## ONE-COMPONENT POLYURETHANE SEALANTS

- Compatible with various substrates
- Flexible behaviour
- Paintable
- High tear resistance
- High bond strength
- Flexible formulations: ranging from high elastic modulus adhesives to low elastic modulus sealants



- Difficult extrusion at low temperatures
- Superficial ageing if exposed to UV rays



## ACETIC SILICON SEALANTS

- Easy extrusion and workability
- Chemical resistance
- Thermal resistance 150-180 °C
- Flexible behaviour
- Also available in transparent
- Also available at low price



- Acid reaction, not compatible on mineral substrates without primers
- Corrosive, not compatible on oxidisable metals if applied without primers
- Odour, release of acetic acid
- Quality can be poor
- Not paintable



## TWO-COMPONENT EPOXY-POLYURETHANE SEALANTS

- Compatible with various substrates
- High chemical and mechanical resistance
- High adhesion if used with primers
- Do not stain surfaces
- Can be sanded and smoothed



- Two-component
- Limited elasticity



## NEUTRAL SILICONE SEALANTS

- Easy extrusion and workability
- Compatible with various building substrates
- Flexible behaviour
- Chemical resistance
- Thermal resistance 150-180°C
- Also available in transparent



- Poor resistance to tear and cut
- If not specific for use, they can stain stone surfaces
- Not paintable



## ACRYLIC SEALANTS

- Easy extrusion and workability
- Compatible with damp substrates
- Paintable
- Low price



- Limited mechanical performance
- Plastic-elastic behaviour
- Volumetric shrinkage
- Must be protected from rain before complete hardening



## HYBRID SEALANTS

- Compatible with various substrates
- Compatible with wet substrates during application
- Flexible behaviour
- Paintable
- Also available in crystal clear
- Limited dirt pick-up
- Flexible formulations: ranging from high elastic modulus adhesives to low elastic modulus sealants



- Low resistance to tear



# PRODUCT CHARACTERISTICS

|                                              |                           | COMPONENTS | MOVEMENT IN SERVICE | SET TO FOOT TRAFFIC | SET TO VEHICULAR TRAFFIC | CHEMICAL RESISTANCE | THERMAL RESISTANCE | PAINTABLE | SANDABLE | DIRT PICK-UP | HI-FLOW | APPLICATION ON WET SUBSTRATES | PRIMER NEEDED                        | JOINTS >40 MM |
|----------------------------------------------|---------------------------|------------|---------------------|---------------------|--------------------------|---------------------|--------------------|-----------|----------|--------------|---------|-------------------------------|--------------------------------------|---------------|
| ACRYLIC SEALANTS                             | Mapectex AC3              | 1          | 7.5%                | no                  | no                       | low                 | -10 / +80° C       | yes       | no       | low          | no      | no                            | same product diluted in water        | no            |
|                                              | Mapectex AC4              | 1          | 12.5%               | no                  | no                       | low                 | -30 / +80° C       | yes       | no       | low          | no      | no                            |                                      | no            |
|                                              | Mapectex AC-FR 2          | 1          | 10%                 | no                  | no                       | low                 | -20 / +80° C       | yes       | no       | low          | no      | no                            |                                      | no            |
|                                              | Mapectex AC P             | 1          | 12.5%               | no                  | no                       | low                 | -30 / +80° C       | yes       | no       | low          | no      | no                            |                                      | no            |
|                                              | Ultrabond Super Grip      | 1          | n.a.                | n.a.                | n.a.                     | low                 | -20 / +80° C       | yes       | no       | n.a.         | no      | no                            |                                      | n.a.          |
| HYBRID SEALANTS                              | Mapectex MS 40            | 1          | 25%                 | yes                 | no                       | medium              | -40 / +70° C       | yes       | no       | low          | no      | yes                           | FD                                   | yes*          |
|                                              | Mapectex MS 45            | 1          | 20%                 | yes                 | yes                      | medium              | -40 / +90° C       | yes       | no       | low          | no      | yes                           |                                      | yes*          |
|                                              | Mapectex MS Crystal       | 1          | 20%                 | no                  | no                       | medium              | -20 / +80° C       | no        | no       | medium       | no      | yes                           |                                      | no            |
|                                              | Ultrabond MS Rapid        | 1          | n.a.                | n.a.                | n.a.                     | medium              | -40 / +90° C       | yes       | yes      | n.a.         | no      | yes                           |                                      | n.a.          |
| POLYURETHANE AND EPOXY-POLYURETHANE SEALANTS | Mapectex PU 35 CR         | 1          | 20%                 | yes                 | yes                      | high                | -30 / +80° C       | yes       | no       | medium       | no      | no                            | Primer A<br>Primer M                 | yes*          |
|                                              | Mapectex PU 40            | 1          | 25%                 | yes                 | no                       | medium              | -40 / +70° C       | yes       | no       | medium       | no      | no                            |                                      | yes*          |
|                                              | Mapectex PU 45 FT         | 1          | 20%                 | yes                 | yes                      | medium              | -40 / +70° C       | yes       | no       | medium       | no      | no                            |                                      | yes*          |
|                                              | Mapectex PU 50 SL         | 1          | 25%                 | yes                 | yes                      | medium              | -40 / +70° C       | yes       | no       | medium       | yes     | no                            |                                      | yes*          |
|                                              | Mapectex PU 65            | 2          | 5%                  | yes                 | yes                      | medium              | -40 / +70° C       | yes       | yes      | medium       | yes     | no                            | Primer M<br>Primer PU60<br>Primer SN | yes           |
|                                              | Mapectex PU 70 NS         | 2          | 25%                 | yes                 | yes                      | high                | -30 / +70° C       | yes       | no       | medium       | no      | no                            |                                      | yes           |
|                                              | Mapectex PU 70 SL         | 2          | 25%                 | yes                 | yes                      | high                | -30 / +70° C       | yes       | no       | medium       | yes     | no                            |                                      | yes           |
|                                              | Ultrabond PU Strong       | 1          | n.a.                | n.a.                | n.a.                     | medium              | -30 / +80° C       | yes       | yes      | n.a.         | no      | no                            |                                      | n.a.          |
|                                              | Mapectex E-PU 21 SL       | 2          | 10%                 | yes                 | yes                      | high                | -30 / +80° C       | yes       | yes      | medium       | yes     | no                            | Primer EP<br>Primer MF               | yes           |
|                                              | Mapectex E-PU 30 NS       | 2          | 10%                 | yes                 | yes                      | high                | -30 / +80° C       | yes       | yes      | medium       | no      | no                            |                                      | yes           |
| ACETIC SILICON SEALANTS                      | Mapesil 300° C            | 1          | 20%                 | no                  | no                       | high                | -30 / +300° C      | no        | no       | high         | no      | no                            | Primer FD                            | no            |
|                                              | Mapesil AC                | 1          | 25%                 | yes                 | no                       | high                | -40 / +180° C      | no        | no       | high         | no      | no                            |                                      | no            |
|                                              | Mapesil U                 | 1          | 20%                 | no                  | no                       | medium              | -40 / +100° C      | no        | no       | high         | no      | no                            |                                      | no            |
|                                              | Mapesil Z Plus            | 1          | 20%                 | no                  | no                       | medium              | -30 / +120° C      | no        | no       | high         | no      | no                            |                                      | no            |
| NEUTRAL SILICON SEALANTS                     | Mapesil BM                | 1          | 25%                 | no                  | no                       | medium              | -40 / +150° C      | no        | no       | high         | no      | no                            | Primer FD                            | no            |
|                                              | Mapesil GP                | 1          | 20%                 | yes                 | no                       | medium              | -40 / +120° C      | no        | no       | high         | no      | no                            |                                      | no            |
|                                              | Mapesil LM                | 1          | 25%                 | yes                 | no                       | high                | -40 / +150° C      | no        | no       | high         | no      | no                            |                                      | no            |
| OTHER POLYMERS                               | Mapectex Blackfill        | 1          | n.a.                | no                  | no                       | low                 | -20 / +70° C       | no        | no       | high         | no      | yes                           |                                      | yes           |
|                                              | Mapectex Firestop 1200° C | 1          | n.a.                | no                  | no                       | low                 | -20 / +1200° C     | no        | no       | low          | no      | no                            |                                      | no            |

n.a. = non applicable.

yes\* = sealant depth must not be greater than 20 mm.

## COLOUR CHART

[illegible]

The chart contains colours from the standard range, coordinated with Mapei Coloured Grouts, as well as some special colours. Displayed colours are indicative and can vary due to the printing processes involved.



# PRODUCT CERTIFICATIONS

| EN 15651-1<br>Sealants for façades | EN 15651-2<br>Sealants for glass surfaces | EN 15651-3<br>Sealants for sanitary joints | EN 15651-4<br>Sealants for pedestrian floors | Resistance to mould | Resistance to mould with BIOBLOCK technology | GEV      | OTHER CERTIFICATIONS                                                                                            |                           |
|------------------------------------|-------------------------------------------|--------------------------------------------|----------------------------------------------|---------------------|----------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------|---------------------------|
| F-EXT-INT class 7.5 P              |                                           |                                            |                                              |                     |                                              | EC1 Plus |                                                                                                                 | Mapeflex AC3              |
| F-EXT-INT class 12.5 P             |                                           |                                            |                                              |                     |                                              | EC1 Plus |                                                                                                                 | Mapeflex AC4              |
| F-INT class 7.5 P                  |                                           |                                            |                                              |                     |                                              | EC1 plus | EN 13501-1<br>EN 13501-2                                                                                        | Mapeflex AC-FR 2          |
| F-EXT-INT class 12.5 P             |                                           |                                            |                                              |                     |                                              | EC1 Plus |                                                                                                                 | Mapeflex AC P             |
|                                    |                                           |                                            |                                              |                     |                                              | EC1 Plus |                                                                                                                 | Ultrabond Super Grip      |
| F-EXT-INT-CC class 25 LM           |                                           |                                            |                                              |                     |                                              | EC1 Plus |                                                                                                                 | Mapeflex MS 40            |
| F-EXT-INT-CC class 20 HM           |                                           |                                            | PW-EXT-INT-CC class 20 HM                    |                     |                                              | EC1 Plus |                                                                                                                 | Mapeflex MS 45            |
| F-EXT-INT class 20 LM              |                                           | XS1                                        |                                              | ●                   |                                              | EC1 Plus |                                                                                                                 | Mapeflex MS Crystal       |
|                                    |                                           |                                            |                                              |                     |                                              | EC1 Plus | FAST TRACK                                                                                                      | Ultrabond MS Rapid        |
|                                    |                                           |                                            |                                              | ●                   |                                              | EC1 plus | EN 14187-4 - EN 14187-6<br>CSM (Cleanroom Suitable Material)<br>contact with drinking water complies with HACCP | Mapeflex PU 35 CR         |
| F-EXT-INT-CC class 25 LM           |                                           |                                            | PW-EXT-INT-CC class 25 LM                    |                     |                                              |          |                                                                                                                 | Mapeflex PU 40            |
| F-EXT-INT-CC class 20 HM           |                                           |                                            | PW-EXT-INT-CC class 20 HM                    |                     |                                              |          | FAST TRACK                                                                                                      | Mapeflex PU 45 FT         |
|                                    |                                           |                                            | PW-EXT-INT-CC class 25 LM                    |                     |                                              |          |                                                                                                                 | Mapeflex PU 50 SL         |
|                                    |                                           |                                            |                                              |                     |                                              |          | FAST TRACK                                                                                                      | Mapeflex PU 65            |
|                                    |                                           |                                            |                                              |                     |                                              |          |                                                                                                                 | Mapeflex PU 70 NS         |
|                                    |                                           |                                            |                                              |                     |                                              |          | Fed Spec SS-S-200 E<br>BS 5212                                                                                  | Mapeflex PU 70 SL         |
|                                    |                                           |                                            |                                              |                     |                                              |          | FAST TRACK<br>EN 204-D4 Watt 91                                                                                 | Ultrabond PU Strong       |
|                                    |                                           |                                            |                                              |                     |                                              |          |                                                                                                                 | Mapeflex E-PU 21 SL       |
|                                    |                                           |                                            |                                              |                     |                                              |          |                                                                                                                 | Mapeflex E-PU 30 NS       |
|                                    |                                           |                                            |                                              |                     |                                              | EC1      |                                                                                                                 | Mapesil 300° C            |
| F-EXT-INT-CC class 25 LM           | G-CC 25 LM                                | XS1                                        |                                              | ●                   | ●                                            | EC1 Plus |                                                                                                                 | Mapesil AC                |
| F-EXT-INT class 12.5 E             |                                           | S1                                         |                                              | ●                   |                                              |          |                                                                                                                 | Mapesil U                 |
| F-EXT-INT-CC class 12.5 E          |                                           | XS1                                        |                                              | ●                   |                                              | EC1 Plus |                                                                                                                 | Mapesil Z Plus            |
| F-EXT-INT-CC class 25 LM           | G-CC class 25 LM                          |                                            | PW-EXT-INT-CC class 25 LM                    |                     |                                              | EC1 Plus |                                                                                                                 | Mapesil BM                |
| F-EXT-INT-CC class 12.5 E          |                                           | XS1                                        |                                              | ●                   |                                              | EC1 Plus |                                                                                                                 | Mapesil GP                |
| F-EXT-INT-CC class 25 LM           | G-CC class 25 LM                          | XS1                                        | PW-EXT-INT-CC class 25 LM                    | ●                   | ●                                            | EC1 Plus | ASTM C920<br>ASTM C1248                                                                                         | Mapesil LM                |
|                                    |                                           |                                            |                                              |                     |                                              |          |                                                                                                                 | Mapeflex Blackfill        |
|                                    |                                           |                                            |                                              |                     |                                              |          |                                                                                                                 | Mapeflex Firestop 1200° C |

# EVERYTHING'S OK, WITH MAPEI

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