

## MS-PR



## PRODUCT DESCRIPTION

- Professional Adhesive and Sealant MS hybrid polymer based mono component suitable for expansion joints

## CHARACTERISTICS

- Easy application even at low temperatures
- Resistant to UV-light resistant, and atmospheric effects it doesn't bleach
- High durability, resistant to ageing
- Eco-friendly, doesn't contain diluents, isocyanate and silicones. Chemically neutral and odorless
- It doesn't release any substance while curing, doesn't cause corrosion
- Good mechanical properties (150 kg/10 cm<sup>2</sup>), elasticity (300%) and flexibility
- Easily painted and sanded with most paints epoxy, polyurethane or acrylic based
- Excellent adhesion to different materials like concrete, bricks, Wood, PVC, glass, ceramic, varnished surfaces, aluminum, etc. Not recommended for Polyethylene (PE), Polypropylene (PP) and Polytetrafluorethylene (PTFE).
- For indoor and outdoor use
- Fast curing, shrinkage during hardening process below 1%.
- Thixotropic, does not slump in vertical joints
- Wide range of RAL colors and others
- Resistant to various chemicals
- Resistant to extreme climatic conditions, rain and snow
- Service temperature: -40°C +90°C

## APPLICATIONS

- Filling of expansion joints
- Sealing joints of silos, tanks, containers and other aluminum elements
- Product certified to be used in the food processing industry (Certificate ISEGA).
- Mounting and Sealing elements of kitchen, tables, decks and structures exposed to vibrations

## CE MARKING

|  |
|--|
| <b>CE</b>  |
| 20   |
| INDEX® - Técnicas Expansivas, S.L.<br>C/ Segador, 13<br>26006 Logroño (La Rioja) SPAIN |
| MSPRX290   |
| EN 15651-1:2012 F-EXT-INT-CC<br>EN 15651-4:2012 PW-INT                                 |
| DoP: MSPR - <a href="http://www.indexfix.com">www.indexfix.com</a>                     |

Sealants for non-structural use in joints in buildings and pedestrian walkways - [Part 1:](#)

Sealants for facade elements

Sealants for non-structural use in joints in buildings and pedestrian walkways - [Part 4:](#)

Sealants for pedestrian walkways









## APPLICATION EXAMPLES




## BASE MATERIAL



## 1. RANGE

| ITEM | CODE     | SIZE    | PHOTO   | COLOR   | MATERIAL  |    |
|------|----------|---------|---|---|---|----|
| 1    | MSPRB290 | 290 ml. |  |              | White Professional Adhesive and Sealant MS hybrid polymer based<br>Format: cartridges of 290 ml | 12 |
| 2    | MSPRG290 | 290 ml. |  | <br>RAL 7030 | Grey Professional Adhesive and Sealant MS hybrid polymer based<br>Format: cartridges of 290 ml  | 12 |
| 3    | MSPRM290 | 290 ml. |  | <br>RAL 8016 | Brown Professional Adhesive and Sealant MS hybrid polymer based<br>Format: cartridges of 290 ml | 12 |
| 4    | MSPRN290 | 290 ml. |  |              | Black Professional Adhesive and Sealant MS hybrid polymer based<br>Format: cartridges of 290 ml | 12 |

## 2. ACCESSORIES

| ITEM | CODE    | PHOTO  | COMPONENT       | MATERIAL                                |
|------|---------|--|-----------------|---|
| 1    | MOPISSI |  | APPLICATION GUN | Application gun for silicone cartridges |

## 3. TECHNICAL CHARACTERISTICS

### 3.1 MS-PR fresh adhesive

| Characteristic          | Criteria                  | Unit     | Value             |
|-------------------------|---------------------------|----------|-------------------|
| Appearance              | [--]                      | [--]     | Homogeneous paste |
| Skin formation          | 23°/50% relative humidity | Minutes  | 25 min            |
| Curing speed/time       | 23°/50% relative humidity | mm / day | 2 – 3             |
| Resistance to flow      | ISO 7390                  | mm       | 0                 |
| Application temperature | [--]                      | °C       | +5 to +30         |

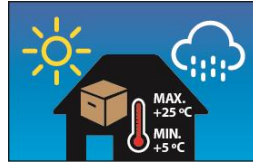
### 3.2 MS-PR cured adhesive

| Characteristic      | Standard  | Unit | Value      |
|---------------------|-----------|------|------------|
| Hardness shore A    | ISO 868   | [--] | 35 - 40    |
| Tensile resistance  | ISO 10563 | %    | < 1,5      |
| Elastic module 100% | ISO 8339  | MPa  | 1,1 – 1,5  |
| Elongation at break | ISO 8339  | MPa  | > 0,70     |
| Tensile resistance  | ISO 8339  | %    | 150 – 250  |
| Elongation at break | ISO 37    | MPa  | 2 – 2,3    |
| Change in volume    | ISO 37    | %    | 200 – 300  |
| Elastic recovery    | ISO 10563 | %    | < 1,5      |
| Service temperature | [--]      | °C   | -40 to +90 |

#### 4. STORAGE CONDITIONS

Keep the product stored in a dry place, away from direct sunlight and heat sources, at an average temperature between +5 °C and +25 °C.

Shelf life of unopened cartridge: 15 months from the date of manufacture. The expiration date is indicated on the cartridge.



**5. PRODUCT APPLICATION**

**Application procedure**

1. The surface of the joint must be dry, hard, clean, dust and fat free. Remove all separated and badly attached pieces.
2. In case of better look is needed tape the edges with a proper masking tape.
3. Cut the cartridge at the top and screw on the nozzle, which has to be cut according to the width of the joint and placed in the gun. (see table). Apply the adhesive in line or in spots
4. During work interruption release the handle on the gun and pull the piston back. The sealant should be applied as evenly as possible.
5. At the end, use a smoothing tool, a smoothing agent soaped finger to level the sealant before the skin starts to form. It is very important to press the sealant well against the surface to be sealed. In case of gluing heavy elements, it is recommended to use supplementary fixing until the product has cured
6. Remove the masking tape before the sealant starts to harden. Fresh adhesive can be cleaned with a proper cleaner, hardened sealant should be removed mechanically.

**Cartridge utilization**

For optimal elasticity of a sealant the correct ratio width: depth is of extreme importance. The ratio is 2:1, 1:1 maximum. Sealant should not adhere to the bottom of the joint gap but only to its sides. The minimum and maximum joint width is 6mm and 20mm, respectively

| Joint depth (mm) | Joint width (mm) |     |     |     |     |      |
|------------------|------------------|-----|-----|-----|-----|------|
|                  | 6                | 8   | 10  | 12  | 15  | 20   |
| 6                | 8,3              | 6,2 | 5   | 4,2 | --  | --   |
| 8                | --               | 4,7 | 3,7 | 3,1 | 2,5 | --   |
| 10               | --               | --  | 3,0 | 2,5 | 2,0 | 1,5  |
| 12               | --               | --  | --  | 2,1 | 1,7 | 1,2  |
| 15               | --               | --  | --  | --  | 1,3 | 1,0  |
| 20               | --               | --  | --  | --  | --  | 0,75 |

The table above shows how many linear meters of joints we can seal with one 290 ml cartridge relative to the width and depth of the joint

\*If the base material is unknown, tests must be done beforehand to ensure the product functions correctly.