

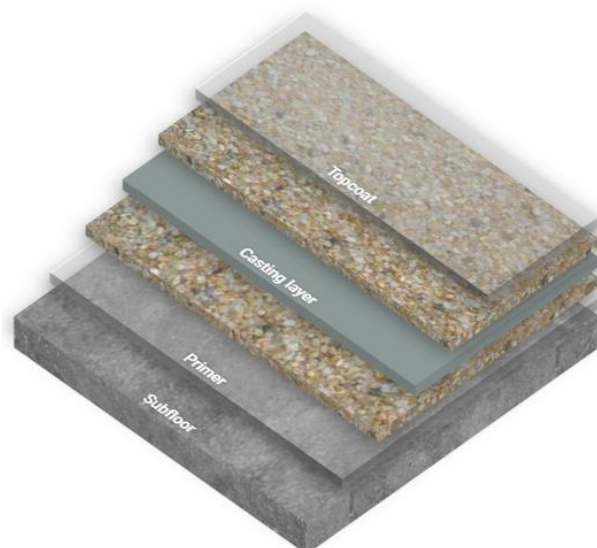
# PMMA TFD System

## Products

|                           |                     |
|---------------------------|---------------------|
| <b>Primer</b>             | Plex 1120/Plex 1110 |
| <b>Construction layer</b> | Plex 1510           |
| <b>Toplayer</b>           | Plex 1690           |
| <b>Cove</b>               | Plex 1535           |
| <b>Catalyst</b>           | Plex 192            |
| <b>Mortel coloured</b>    | QMI color           |
| <b>Cleaner</b>            | Plex Cleaner        |
| <b>Filler</b>             | Plex Filler         |

## Tools

|                           |
|---------------------------|
| <b>Stripholder</b>        |
| <b>Strip 4700-280- B2</b> |
| <b>Wiper</b>              |
| <b>Nylon roller</b>       |
| <b>Trowel</b>             |
| <b>Hollow trowel</b>      |



## Colors

|       |       |       |       |
|-------|-------|-------|-------|
| QMI01 | QMI02 | QMI03 | QMI04 |
| QMI05 | QMI06 | QMI07 | QMI08 |
| QMI09 | QMI10 | QMI11 | QMI12 |
| QMI13 | QMI14 | QMI15 | QMI16 |
| QMI17 | QMI18 | QMI19 | QMI20 |
| QMI21 | QMI22 | QMI23 | QMI24 |
| QMI25 | QMI26 | QMI27 | QMI28 |
| QMI29 | QMI30 |       |       |

## Step 1: Preparation of the subfloor

On a concrete or cement-bound floor, in many cases a so-called cement veil is present. By (diamond) sanding or blasting this veil disappears. Sanding or blasting is recommended in all cases for optimal adhesion to the subfloor. This also gives concrete floors better impact resistance. Sanding the floor can be done with a rotary parquet sander. The grit size of the sanding disc depends on the subfloor. It would be wise to have several sanding discs on hand.

## Step 2 Application of the de Primer

- It is important to primer with tooth strip 4700-280- B2 to ensure the correct layer thickness. If this is done with a roller or trowel there is a risk that the primer is not applied thick enough. Therefore the primer will not cure properly.
- Apply the primer with tooth strip 1700-280- B2
- Scattering is important for building the proper layer thickness of the overall flooring system

|                            |                             |
|----------------------------|-----------------------------|
| Usage Plex 1120 + Plex 192 | 300-500 gram/m <sup>2</sup> |
|----------------------------|-----------------------------|

|                                |                         |
|--------------------------------|-------------------------|
| Usage Mortel 0,4-0,8 / 0,8-1,4 | 600 gram/m <sup>2</sup> |
|--------------------------------|-------------------------|

| Ambient temperature | Catalyst (Plex 192)  | Application time | Curing time |
|---------------------|----------------------|------------------|-------------|
| 0-10 °C             | 6% on Plex 1120/1110 | 11 minutes       | 30 minutes  |
| 10-20 °C            | 4% on Plex 1120/1110 | 8 minutes        | 30 minutes  |
| 20-30 °C            | 2% on Plex 1120/1110 | 8 minutes        | 30 minutes  |

## Step 3 Repairing holes and an uneven substrate

- The holes and bumps to be repaired must first be primed with Plex 1120, see the previous step.
- Because of the chemical reaction and rapid heat buildup, it is important to add more coarse quartz at deeper holes to keep the product temperature from rising too high. If product temperatures are too high, the mortar comes loose
- Apply with a trowel

**For holes up to 2 cm thick, the following is recommended:**

|                       |               |
|-----------------------|---------------|
| <i>Plex 1510</i>      | <i>6,3 kg</i> |
| <i>Mortel 0,4-0,8</i> | <i>25 kg</i>  |

**For holes up to 5 cm thick, the following is recommended:**

|                       |               |
|-----------------------|---------------|
| <i>Plex 1510</i>      | <i>6,3 kg</i> |
| <i>Mortel 0,4-0,8</i> | <i>25 kg</i>  |
| <i>Grind 2-3</i>      | <i>5 kg</i>   |

**For holes up to 10 cm thick, the following is recommended:**

|                       |               |
|-----------------------|---------------|
| <i>Plex 1510</i>      | <i>6,3 kg</i> |
| <i>Mortel 0,4-0,8</i> | <i>25 kg</i>  |
| <i>Grind 2-3</i>      | <i>10 kg</i>  |

| <b>Ambient temperature</b> | <b>Catalyst (Plex 192)</b> | <b>Application time</b> | <b>Curing time</b> |
|----------------------------|----------------------------|-------------------------|--------------------|
| 0-5 °C                     | 4% on Plex 1510            | 20 minutes              | 60 minutes         |
| 5-10 °C                    | 3% on Plex 1510            | 25 minutes              | 55 minutes         |
| 10-20 °C                   | 2% on Plex 1510            | 17 minutes              | 35 minutes         |
| 20-30 °C                   | 1,5% on Plex 1510          | 14 minutes              | 30 minutes         |

## Step 4 Application of the cove

- The application of the cove is done with Plex 1535 + Plex 192 + Mortel 0,4-0,8
- Make sure that the substrate and the raised edges, against which the cove will be placed, have also been pre-treated with primer.
- Work precise and clean. It is important that no skirting residue is left on the substrate; this will be seen in the floor.
- Apply with a plasterer's spatula and apply the cavity with a hollow angle trowel
- Push the cove well, to compact it properly. After pressing the skirting well, brush it with Plex cleaner.

### Mixing Ratio

|                             |             |
|-----------------------------|-------------|
| <i>Plex 1535 + Plex 192</i> | <i>1 kg</i> |
| <i>Mortel 0,4-0,8</i>       | <i>3 kg</i> |

| Ambient temperature | Catalyst (Plex 192) | Application time | Curing time |
|---------------------|---------------------|------------------|-------------|
| 0-5 °C              | 4% on Plex 1510     | 20 minutes       | 60 minutes  |
| 5-10 °C             | 3% on Plex 1510     | 25 minutes       | 55 minutes  |
| 10-20 °C            | 2% on Plex 1510     | 17 minutes       | 35 minutes  |
| 20-30 °C            | 1,5% on Plex 1510   | 14 minutes       | 30 minutes  |

## Step 5 Application of the Construction layer

- When applying the construction layer, keep the tooth strip holder upright. Check regularly that the teeth of the tooth strip are not worn down!
- Use tooth strip 4676-000-S2 for applying the construction layer.
- Allow the product to flow before you start spreading. Always pour the entire contents of the bucket at once to prevent rapid reaction of material in the bucket.
- Scatter the construction layer with Mortel 0,4 – 0,8 until no wet spots are seen

| Construction layer mixing ratio |       |
|---------------------------------|-------|
| Plex 1510                       | 10 kg |
| Plex filler                     | 20 kg |

|                                 |                       |
|---------------------------------|-----------------------|
| Usage (Plex 1510 + Plex filler) | 2,6 kg/m <sup>2</sup> |
|---------------------------------|-----------------------|

|                      |                     |
|----------------------|---------------------|
| Usage Mortel 0,4-0,8 | 4 kg/m <sup>2</sup> |
|----------------------|---------------------|

| Ambient temperature | Catalyst (Plex 192) | Application time | Curing time |
|---------------------|---------------------|------------------|-------------|
| 0-5 °C              | 4% on Plex 1510     | 20 minutes       | 60 minutes  |
| 5-10 °C             | 3% on Plex 1510     | 25 minutes       | 55 minutes  |
| 10-20 °C            | 2% on Plex 1510     | 17 minutes       | 35 minutes  |
| 20-30 °C            | 1,5% on Plex 1510   | 14 minutes       | 30 minutes  |

## Step 6 Application of the topcoat

- Before applying the top coat, remove excess quartz from the floor and vacuum the floor.
- When adding too much catalyst, yellow spots may appear because the top layer then builds up a temperature that is too high.
- The degree of anti-slip depends on the finish
- Apply with a squeegee and roll with a roller

|                              |                            |                             |
|------------------------------|----------------------------|-----------------------------|
| <b>First layer</b>           | <i>Plex 1690 + Plex192</i> | 250-400 gram/m <sup>2</sup> |
| <b>Optional second layer</b> | <i>Plex 1690 + Plex192</i> | 250-400 gram/m <sup>2</sup> |

| Ambient temperature | Catalyst (Plex 192) | Application time | Curing time   |
|---------------------|---------------------|------------------|---------------|
| 0-10 °C             | 2% on Plex 1690     | 13-15minutes     | 35-40 minutes |
| 10-15 °C            | 1,5% on Plex 1690   | 13-14 minutes    | 30-35 minutes |
| 15-20 °C            | 1% on Plex 1690     | 13-12 minutes    | 30-35 minutes |
| 20-30 °C            | 0,8% on Plex 1690   | 10-12 minutes    | 20-30 minutes |

| Finish         |     |          |                          |
|----------------|-----|----------|--------------------------|
| Heavy antislip | R12 | Wiper    | 500 gram/ m <sup>2</sup> |
| Antislip       | R11 | Trowel   | 600 gram/m <sup>2</sup>  |
| Light antislip | R10 | Wiper 2x | 780 gram/m <sup>2</sup>  |

Displacement value for two layers of sealing is V6

**Value base**

All technical data stated in this technical data sheet is based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

**Health and safety information**

For information and advice on how to safely handle, store and dispose of chemical products, users should refer to the most recent material safety data sheet containing physical, ecological, toxicological and other safety related data.

**Legal notes**

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