RESILIENT FLOORING PRODUCT SYSTEMS AND WORK METHOD STATEMENTS










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ADHESIVES · SEALANTS · CHEMICAL PRODUCTS FOR BUILDING

INDEX

GREEN STAR™ CERTIFIED SYSTEM FOR THE **FAST TRACK INSTALLATION OF LVT PLANKS**

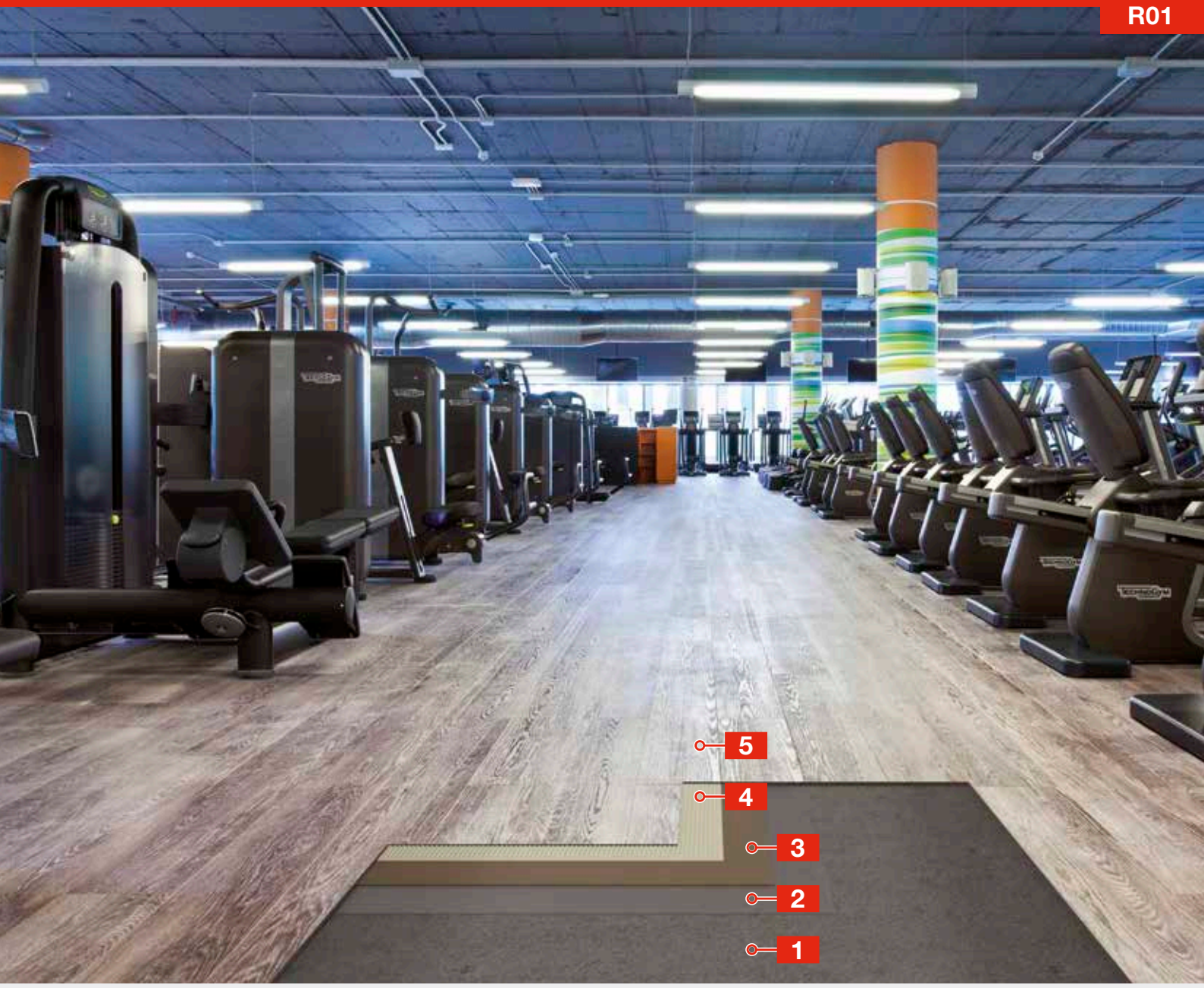
this system makes it possible to obtain ***GREEN STAR™*** *credits*

GREEN INNOVATION

Fast Track Ready

MAPEI

R01



1	2	3	4	5
properly prepared concrete substrate	*primer* **Eco Prim T Plus**	*levelling compound* **Ultraplan Fast Track**	*adhesive* **Ultrabond Eco VS90 Plus**	*LVT floor covering*

08/17 REV 1

Please refer to the corresponding Work Method Statement for complete list of suitable products and installation information

PART 1 SYSTEM

1.1 REFERENCES

1. AS 1884 (2012) – Floor Coverings – Resilient sheet and tiles – Installation practices
2. MAPEI Surface Preparation Requirements – Floor Covering Installation Systems
3. MAPEI Technical Notebook – Installing Resilient Wall and Floor Coverings

1.2 CONCRETE SUBSTRATE PREPERATION

All substrates must be structurally sound, dry, solid and stable. Any laitance, dust, grease, oil, paint or curing compounds present on the surface of the concrete substrate that may inhibit bond, shall be mechanically removed. The substrate should then be cleaned and prepared in accordance with the relevant standards and as per the MAPEI technical data sheets (TDS).

1.3 PRIMER

A. ECO PRIM T PLUS (2930-1-2014)

1. Solvent free acrylic primer in water dispersion with very low emissions of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply the primer using a brush or roller diluted in accordance with the TDS.
  - ◊ Ensure no puddling of the primer occurs.

1.4 LEVELLING COMPOUND

A. ULTRAPLAN FAST TRACK (4027-05-2017 AUS)

1. Ultra-fast drying self-levelling compound for thicknesses from 1 to 10 mm.

- **APPLICATION:**
  - ◊ Apply the levelling compound with a large metal gauge trowel in a single coat from 1 to 10 mm in thickness.

1.5 ADHESIVE

- **NOTE:** Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatized to the recommended temperatures and R.H.

A. ULTRABOND ECO VS90 PLUS (5855-9-2015 GB)

1. Universal high temperature adhesive in water dispersion for resilient floor coverings.

- **APPLICATION:**
  - ◊ Before applying, stir the adhesive in the bucket. Apply adhesive evenly to the substrate using a V1 notched trowel.
  - ◊ Do not apply the adhesive where flooring material cannot be installed with the adhesive open time.

MAPEI provides technical data sheets (TDS) for all products which should be read in conjunction with this Work Method Statement. The TDS' can be obtained from www.mapei.com.au, or by clicking directly on the listed products within the PDF.

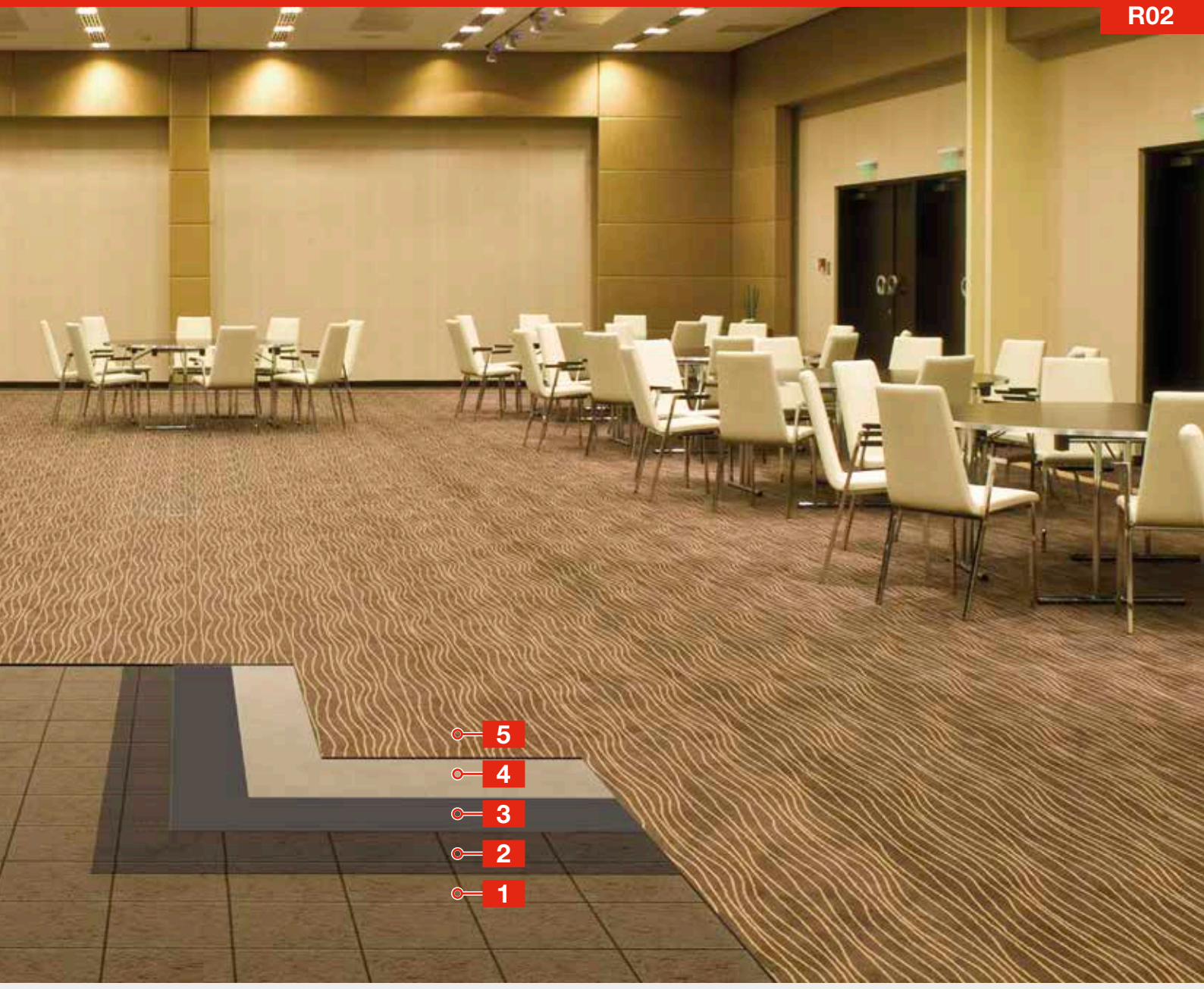
GREEN STAR™ CERTIFIED SYSTEM FOR THE **INSTALLATION OF CARPET OVER EXISTING CERAMIC TILES**

this system makes it possible to obtain ***GREEN STAR™*** *credits*

GREEN INNOVATION

MAPEI

R02



1	2	3	4	5
existing ceramic tiles	*primer* **Eco Prim Grip (fast-drying)** *or* **Eco Prim T Plus (all undiluted)**	*levelling compound* **Ultraplan**	*adhesive* **Rollcoll** *or* **Ultrabond Eco 170**	*carpet*

08/17 REV 1

Please refer to the corresponding Work Method Statement for complete list of suitable products and installation information

PART 1 SYSTEM

1.1 REFERENCES

1. AS 2455.1 (2007) Textile floor coverings – Installation practice – Part 1: General
2. AS 2455.2 (2007) Textile floor coverings – Installation practice – Part 2: Carpet Tiles
3. MAPEI Surface Preparation Requirements – Floor Covering Installation Systems
4. MAPEI Technical Notebook – Installing Resilient Wall and Floor Coverings

1.2 EXISITING CERAMIC TILE SUBSTRATE PREPERATION

1. Any existing loose/dummy tiles and loose/weak/cracked grout with large/deep joints should be removed and filled with **PLANITOP FAST 330**. Narrow grout joints should be filled with **KERAPOXY.**
2. Mechanically prepare the existing ceramic tile substrate using the diamond grind method to remove contaminants and to create a suitable surface profile.
3. All substrates must be structurally sound, dry, flat, solid and stable. Any laitance, dust, grease, oil, paint or curing compounds present on the surface of the exiting ceramic tile floor substrate that may inhibit bond shall be mechanically removed as per point 2. The substrate should then be cleaned and prepared in accordance with the relevant standards and as per the MAPEI technical data sheets (TDS).

1.3 PRIMER

Primer to be chosen from the following options:

A. ECO PRIM T PLUS (2930-1-2014)

1. Solvent free acrylic primer in water dispersion with very low emissions of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply the primer using a brush or roller undiluted.
  - ◊ Ensure no puddling of the primer occurs.

B. ECO PRIM GRIP (2916-5-2012) ***– FAST TRACK Solution***

1. Multi-purpose, ready-to-use bonding promoter primer made from synthetic acrylic resin and silica inerts with a very low emission of volatile organic compounds (VOC) for render, smoothing and levelling compounds and adhesives for ceramic tiles.

- **APPLICATION:**
  - ◊ Stir ready-to-use primer prior to application, no dilution is required.
  - ◊ Apply primer with either a roller or brush.

1.4 LEVELLING COMPOUND

Levelling compound to be chosen from the following options:

A. **UC LEVELLER (518-01-2017 AUS)** ***– GOOD Solution***

1. Fast hardening levelling smoothing compound for thicknesses from 3 mm to 70 mm: especially recommended for pumping.

B. **ULTRAPLAN ECO (513-05-2017 AUS)** ***– BETTER Solution***

1. Ultra-fast hardening self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 1 to 10 mm per application.

C. **ULTRAPLAN (501-05-2017 AUS)** ***– BEST Solution***

1. Ultra-fast drying, self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 3 to 15 mm per application.

D. **ULTRAPLAN FAST TRACK (4027-05-2017 AUS)** ***– FAST TRACK Solution***

1. Ultra-fast drying self-levelling compound for thicknesses from 1 to 10 mm.

- **APPLICATION:**
  - ◊ Spread the levelling compound in thicknesses according to the product used, using a large metal trowel or float, tilting the trowel slightly to obtain the desired thickness.

1.5 ADHESIVE

- **NOTE:** Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatized to the recommended temperatures and R.H.

Adhesive to be chosen from the following options:

A. **ROLLCOLL (222-1-2016 GB)** ***– GOOD Solution***

1. Universal adhesive in water dispersion for vinyl and textile floor and wall coverings.

B. **ULTRABOND ECO 170 (220-1-2017 GB)** ***– BEST Solution***

1. High initial grab and long open time adhesive for textile floorings.

- **APPLICATION:**
  - ◊ Apply enough adhesive to the substrate using a trowel such that it wets the back of the covering completely.

MAPEI provides technical data sheets (TDS) for all products which should be read in conjunction with this Work Method Statement. The TDS' can be obtained from www.mapei.com.au, or by clicking directly on the listed products within the PDF.

SYSTEM FOR **INSTALLING DUAL BOND CARPET OVER A CONCRETE SUBSTRATE**

this system makes it possible to obtain ***GREEN STAR™*** *credits*

GREEN INNOVATION

MAPEI

R03

1	2	3	4	5
properly prepared concrete substrate	*adhesive* **Ultrabond Eco Tack**	*dual bond underlay*	*adhesive* **Ultrabond Eco 170**	*textile floor covering*

08/17 REV 1

Please refer to the corresponding Work Method Statement for complete list of suitable products and installation information

PART 1 SYSTEM

1.1 REFERENCES

1. AS 2455.1 (2007) Textile floor coverings – Installation practice – Part 1: General
2. MAPEI Surface Preparation Requirements – Floor Covering Installation Systems
3. MAPEI Technical Notebook – Installing Resilient Wall and Floor Coverings

1.2 CONCRETE SUBSTRATE PREPERATION

All substrates must be structurally sound, dry, solid and stable. Any laitance, dust, grease, oil, paint or curing compounds present on the surface of the concrete substrate that may inhibit bond, shall be mechanically removed. The substrate should then be cleaned and prepared in accordance with the relevant standards and as per the MAPEI technical data sheets (TDS).

1.3 PRIMER – IF LEVELLING COMPOUND IS USED

A. ECO PRIM T PLUS (2930-1-2014)

1. Solvent free acrylic primer in water dispersion with very low emissions of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply the primer using a brush or roller undiluted.
  - ◊ Ensure no puddling of the primer occurs.

1.4 LEVELLING COMPOUND – IF REQUIRED

A. ULTRAPLAN (501-05-2017 AUS)

1. Ultra-fast drying, self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 3 to 15 mm per application.

- **APPLICATION:**
  - ◊ Spread the levelling compound in thicknesses of 3 to 15 mm, using a large metal trowel or float, tilting the trowel slightly to obtain the desired thickness.

1.5 UNDERLAY ADHESIVE

A. ULTRABOND ECO TACK (213-6-2012)

1. Acrylic tackifier dispersed in water with a very low emission level of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply adhesive to the substrate with a notched trowel.
  - ◊ If flooring is laid on this adhesive before it is completely dry, the bond becomes semi-permanent.

1.6 UNDERLAY

A. Dual Bond Underlay

- **NOTE:** Dual bond underlay must be installed in accordance with manufacturers' instructions.

1.7 TEXTILE ADHESIVE

A. ULTRABOND ECO 170 (220-1-2017 GB)

1. High initial grab and long open time adhesive for textile floorings.

- **APPLICATION:**
  - ◊ Apply the adhesive in an even layer on the substrate using a V3 notched trowel.
- **NOTE:** Do not apply the adhesive on an area of substrate which may not be dressed with the flooring material within 30-40 minutes.

MAPEI provides technical data sheets (TDS) for all products which should be read in conjunction with this Work Method Statement. The TDS' can be obtained from www.mapei.com.au, or by clicking directly on the listed products within the PDF.

GREEN STAR™ CERTIFIED SYSTEM FOR THE **INSTALLATION OF LOOSE LAY VINYL TILES/PLANKS**

this system makes it possible to obtain ***GREEN STAR™*** *credits*

GREEN INNOVATION

MAPEI

R04

1	2	3	4	5
properly prepared concrete substrate	*primer* **Eco Prim T Plus**	*levelling compound* **Ultraplan**	*adhesive* **Ultrabond Eco Fix**	*loose lay vinyl tiles*

08/17 REV 1

Please refer to the corresponding Work Method Statement for complete list of suitable products and installation information

PART 1 SYSTEM

1.1 REFERENCES

1. AS 1884 (2012) – Floor Coverings – Resilient sheet and tiles – Installation practices
2. MAPEI Surface Preparation Requirements – Floor Covering Installation Systems
3. MAPEI Technical Notebook – Installing Resilient Wall and Floor Coverings

1.2 CONCRETE SUBSTRATE PREPERATION

All substrates must be structurally sound, dry, solid and stable. Any laitance, dust, grease, oil, paint or curing compounds present on the surface of the concrete substrate that may inhibit bond, shall be mechanically removed. The substrate should then be cleaned and prepared in accordance with the relevant standards and as per the MAPEI technical data sheets (TDS).

1.3 PRIMER

A. ECO PRIM T PLUS (2930-1-2014)

1. Solvent free acrylic primer in water dispersion with very low emissions of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply the primer using a brush or roller diluted in accordance with the TDS.
  - ◊ Ensure no puddling of the primer occurs.

1.4 LEVELLING COMPOUND

- **NOTE:** Levelling compound must be applied 2 to 3 hours after applying the primer, but no longer than 24 hours.

Levelling compound to be chosen from the following options:

A. ULTRAPLAN ECO (513-05-2017 AUS)

1. Ultra-fast hardening self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 1 to 10 mm per application.

B. ULTRAPLAN (501-05-2017 AUS)

1. Ultra-fast drying, self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 3 to 15 mm per application.

C. ULTRAPLAN MAXI (510-05-2017 AUS)

1. Ultra-fast drying, self-levelling compound for thicknesses from 3 to 40 mm with very low VOC's.

D. ULTRAPLAN FAST TRACK (4027-05-2017 AUS)

1. Ultra-fast drying self-levelling compound for thicknesses from 1 to 10 mm.

- **APPLICATION:**
  - ◊ Spread the levelling compound in thicknesses according to the product used, using a large metal trowel or float, tilting the trowel slightly to obtain the desired thickness.

1.5 ADHESIVE

A. ULTRABOND ECO FIX (214-1-2016 GB)

1. Adhesive in water dispersion with very low emission of volatile organic compounds, with permanent tack for dry-lay floor tiles.

- **NOTE:** Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatized to the recommended temperatures and R.H.
- **APPLICATION:**
  - ◊ Apply adhesive to the substrate with a notched trowel.
  - ◊ If flooring material is laid onto the adhesive before it is completely dry, the bond becomes permanent.

MAPEI provides technical data sheets (TDS) for all products which should be read in conjunction with this Work Method Statement. The TDS' can be obtained from www.mapei.com.au, or by clicking directly on the listed products within the PDF.

SYSTEM FOR **INSTALLATION OF LVT OVER CONCRETE WITH HIGH RESIDUAL MOISTURE CONTENT**

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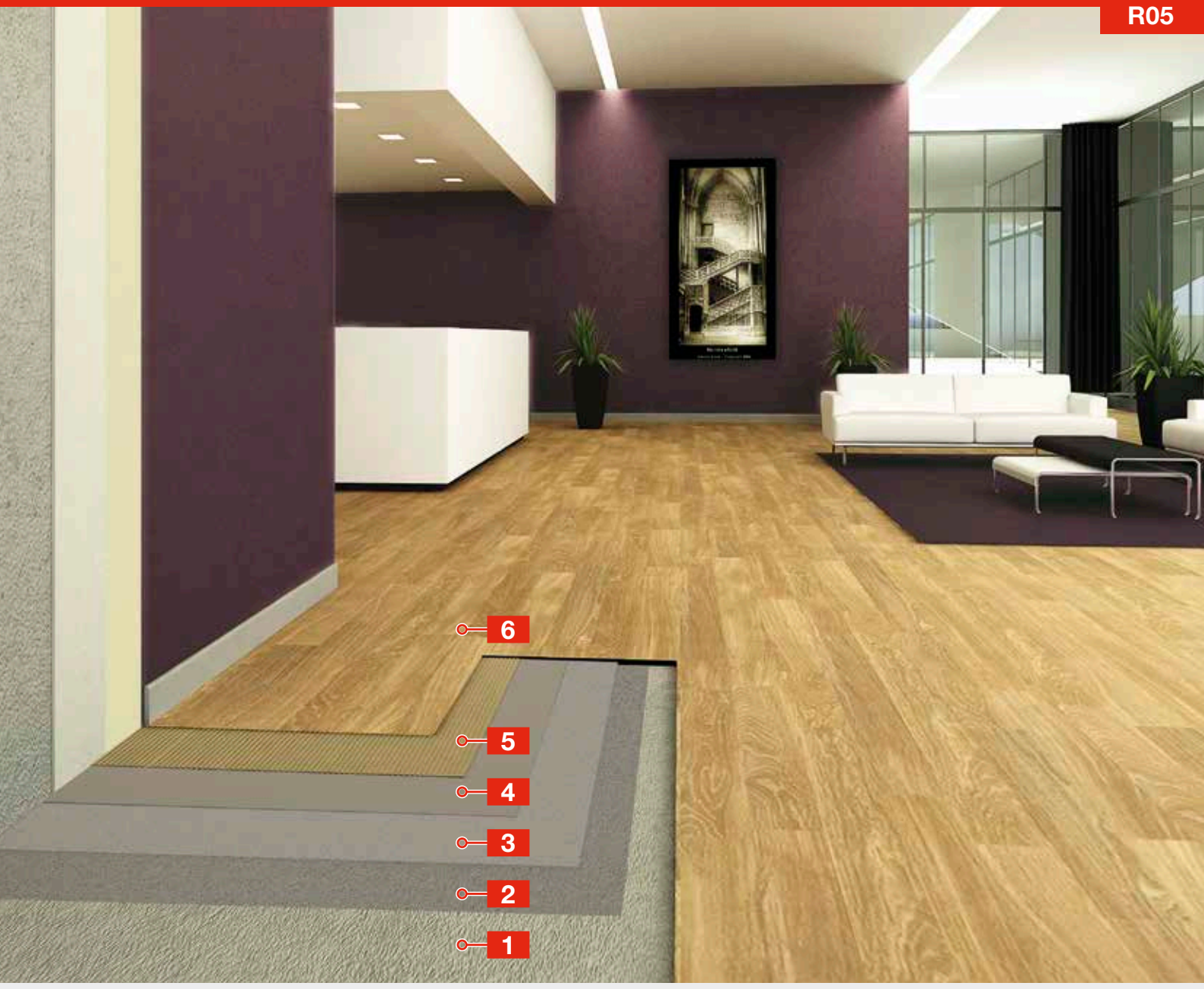
GREEN INNOVATION

MAPEI

R05



properly prepared concrete substrate	moisture vapour barrier **Primer MF**	primer **Eco Prim T Plus (undiluted)**	levelling compound **Ultraplan**	adhesive **Ultrabond Eco VS90 Plus**	LVT floor covering
1	**2**	**3**	**4**	**5**	**6**

08/17 REV 1

Please refer to the corresponding Work Method Statement for complete list of suitable products and installation information

PART 1 SYSTEM

1.1 REFERENCES

1. AS 1884 (2012) – Floor Coverings – Resilient sheet and tiles – Installation practices
2. MAPEI Surface Preparation Requirements – Floor Covering Installation Systems
3. MAPEI Technical Notebook – Installing Resilient Wall and Floor Coverings

1.2 CONCRETE SUBSTRATE PREPERATION

All substrates must be structurally sound, dry, solid and stable. Any laitance, dust, grease, oil, paint or curing compounds present on the surface of the concrete substrate that may inhibit bond, shall be mechanically removed. The substrate should then be cleaned and prepared in accordance with the relevant standards and as per the MAPEI technical data sheets (TDS).

1.3 MOISTURE VAPOUR BARRIER

- **NOTE:** Prior to the application of the moisture vapour barrier, relative humidity (RH) readings must be carried out in accordance with AS1884 (2012). For readings <85% RH and falling, a moisture vapour barrier is not required.

Moisture vapour barrier to be chosen from the following options:

A. PRIMER MF (544-11-2016 GB)

1. Epoxy moisture barrier for cementitious substrates.

B. MAPEPROOF 1K TURBO (2918-05-2016 AUS) *<95% RH, 28 day old concrete*

1. One component, solvent free, moisture curing and rapid drying polyurethane surface membrane with a very low emission of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply with a roller, brush or flat trowel,
  - ◊ A single coat is usually sufficient, providing a continuous layer with a glossy film on the surface is achieved. For more porous substrates, or substrates in poor condition, a second coat should be applied.
- **NOTE:** Where the subsequent application of levelling compound is to exceed 10 mm, or the area is expected to receive high stresses, MAPEI highly recommend completely saturating the fresh final coat of the moisture vapour barrier with **Quartz 1.2**. Once the moisture vapour barrier is dry and set for light foot traffic, all excess **Quartz 1.2** is to be removed via vacuum cleaning and the area is to be inspected for any bald spots (*where the moisture vapour barrier has no **Quartz 1.2***). All bald spots shall receive an additional coat of moisture vapour barrier, saturated with **Quartz 1.2** as detailed above.

1.4 PRIMER

- **NOTE: ECO PRIM T PLUS** must be applied once moisture vapour barrier is dry to touch (Approx. 2 hours for **MAPEPROOF 1K TURBO**, 4 hours for **PRIMER MF**) but no longer than 24 hours. Primer not required if moisture vapour barrier was broadcasted with sand.

A. ECO PRIM T PLUS (2930-1-2014)

1. Solvent free acrylic primer in water dispersion with very low emissions of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply the primer using a brush or roller undiluted in accordance with the TDS.
  - ◊ Ensure no puddling of the primer occurs.

1.5 LEVELLING COMPOUND

- **NOTE:** Levelling compound must be applied 2 to 3 hours after applying the primer, but no longer than 24 hours.

Levelling compound to be chosen from the following options:

A. ULTRAPLAN ECO (513-05-2017 AUS)

1. Ultra-fast hardening self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 1 to 10 mm per application.

B. ULTRAPLAN (501-05-2017 AUS)

1. Ultra-fast drying, self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 3 to 15 mm per application.

C. ULTRAPLAN MAXI (510-05-2017 AUS)

1. Ultra-fast drying, self-levelling compound for thicknesses from 3 to 40 mm with very low VOC's.

D. ULTRAPLAN FAST TRACK (4027-05-2017 AUS)

1. Ultra-fast drying self-levelling compound for thicknesses from 1 to 10 mm.

- **APPLICATION:**
  - ◊ Spread the levelling compound in thicknesses according to the product used, using a large metal trowel or float, tilting the trowel slightly to obtain the desired thickness.

1.6 ADHESIVE

- **NOTE:** Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatized to the recommended temperatures and R.H.

A. ULTRABOND ECO V4 SP (224-8-2015) ***– GOOD Solution***

1. Universal adhesive in water dispersion for resilient floor coverings, with very low emission of volatile organic compounds.

B. ULTRABOND ECO VS90 PLUS (5855-9-2015 GB) ***– BEST Solution***

1. Universal high temperature adhesive in water dispersion for resilient floor coverings.

- **APPLICATION:**
  - ◊ Before applying, stir the adhesive in the bucket. Apply adhesive evenly to the substrate using a V1 notched trowel.
  - ◊ Do not apply the adhesive where flooring material cannot be installed with the adhesive open time.

MAPEI provides technical data sheets (TDS) for all products which should be read in conjunction with this Work Method Statement. The TDS' can be obtained from www.mapei.com.au, or by clicking directly on the listed products within the PDF.

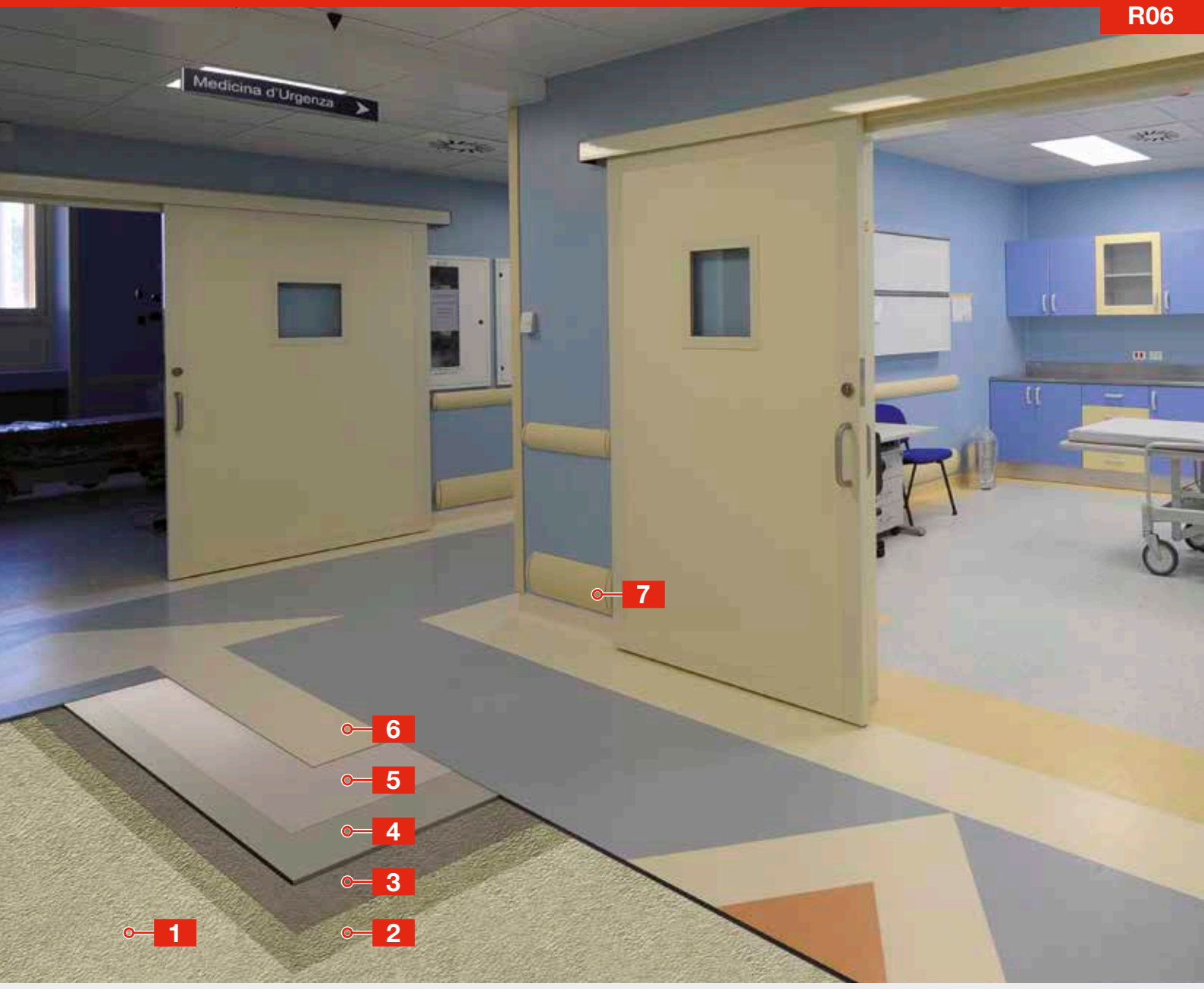
SYSTEM FOR **INSTALLING VINYL FLOORCOVERINGS OVER CONCRETE WITH HIGH RESIDUAL MOISTURE**

this system makes it possible to obtain ***GREEN STAR™*** *credits*

GREEN INNOVATION

MAPEI

R06



1	2	3	4	5	6	7
properly prepared concrete substrate	*moisture vapour barrier* **Primer MF**	*primer* **Eco Prim T Plus (undiluted)**	*levelling compound* **Ultraplan**	*adhesive* **Ultrabond Eco 380**	*vinyl floorcovering*	*adhesive for coving* **Ultrabond Eco Contact**

08/17 REV 1

Please refer to the corresponding Work Method Statement for complete list of suitable products and installation information

PART 1 SYSTEM

1.1 REFERENCES

1. AS 1884 (2012) – Floor Coverings – Resilient sheet and tiles – Installation practices
2. MAPEI Surface Preparation Requirements – Floor Covering Installation Systems
3. MAPEI Technical Notebook – Installing Resilient Wall and Floor Coverings

1.2 CONCRETE SUBSTRATE PREPERATION

All substrates must be structurally sound, dry, solid and stable. Any laitance, dust, grease, oil, paint or curing compounds present on the surface of the concrete substrate that may inhibit bond, shall be mechanically removed. The substrate should then be cleaned and prepared in accordance with the relevant standards and as per the MAPEI technical data sheets (TDS).

1.3 MOISTURE VAPOUR BARRIER

- **NOTE:** Prior to the application of the moisture vapour barrier, relative humidity (RH) readings must be carried out in accordance with AS1884 (2012). For readings <85% RH and falling, a moisture vapour barrier is not required.

Moisture vapour barrier to be chosen from the following options:

A. PRIMER MF (544-11-2016 GB)

1. Epoxy moisture barrier for cementitious substrates.

B. MAPEPROOF 1K TURBO (2918-05-2016 AUS) *<95% RH, 28 day old concrete*

1. One component, solvent free, moisture curing and rapid drying polyurethane surface membrane with a very low emission of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply with a roller, brush or flat trowel,
  - ◊ A single coat is usually sufficient, providing a continuous layer with a glossy film on the surface is achieved. For more porous substrates, or substrates in poor condition, a second coat should be applied.
- **NOTE:** Where the subsequent application of levelling compound is to exceed 10 mm, or the area is expected to receive high stresses, MAPEI highly recommend completely saturating the fresh coat of the moisture vapour barrier with **Quartz 1.2**. Once the moisture vapour barrier is dry and fully cured, all excess **Quartz 1.2** is to be removed via vacuum cleaning and the area is to be inspected for any bald spots (*where the moisture vapour barrier has no **Quartz 1.2***). All bald spots shall receive an additional coat of moisture vapour barrier, saturated with **Quartz 1.2** as detailed above.

1.4 PRIMER

- **NOTE: ECO PRIM T PLUS** must be applied once moisture vapour barrier is dry to touch (Approx. 2 hours for **MAPEPROOF 1K TURBO**, 4 hours for **PRIMER MF**) but no longer than 24 hours. Primer not required if moisture vapour barrier was broadcasted with sand.

A. ECO PRIM T PLUS (2930-1-2014)

1. Solvent free acrylic primer in water dispersion with very low emissions of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply the primer using a brush or roller undiluted in accordance with the TDS.
  - ◊ Ensure no puddling of the primer occurs.

1.5 LEVELLING COMPOUND

- **NOTE:** Levelling compound must be applied 2 to 3 hours after applying the primer, but no longer than 24 hours.

Levelling compound to be chosen from the following options:

A. ULTRAPLAN ECO (513-05-2017 AUS)

1. Ultra-fast hardening self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 1 to 10 mm per application.

B. ULTRAPLAN (501-05-2017 AUS)

1. Ultra-fast drying, self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 3 to 15 mm per application.

C. ULTRAPLAN MAXI (510-05-2017 AUS)

1. Ultra-fast drying, self-levelling compound for thicknesses from 3 to 40 mm with very low VOC's.

D. ULTRAPLAN FAST TRACK (4027-05-2017 AUS)

1. Ultra-fast drying self-levelling compound for thicknesses from 1 to 10 mm.

- **APPLICATION:**
  - ◊ Spread the levelling compound in thicknesses according to the product used, using a large metal trowel or float, tilting the trowel slightly to obtain the desired thickness.

1.6 ADHESIVE – FLOORING

- **NOTE:** Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatized to the recommended temperatures and R.H.

Adhesive to be chosen from the following options:

A. ULTRABOND ECO V4 SP (224-8-2015)

1. Universal adhesive in water dispersion for resilient floor coverings, with very low emission of volatile organic compounds.

B. ULTRABOND ECO VS90 PLUS (5855-9-2015 GB)

1. Universal high temperature adhesive in water dispersion for resilient floor coverings.

C. ULTRABOND ECO 380 (232-9-2015 GB)

1. Solvent free, transitional pressure sensitive adhesive with strong initial tack and extended open time for vinyl floor coverings.

- **APPLICATION:**
  - ◊ Before applying, stir the adhesive in the bucket. Apply adhesive evenly to the substrate using a V1 notched trowel.
  - ◊ Do not apply the adhesive where flooring material cannot be installed with the adhesive open time.

1.7 ADHESIVE – COVING

- **NOTE:** Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatized to the recommended temperatures and R.H.

A. ULTRABOND ECO CONTACT (6506-5-2016 GB)

1. Solvent free contact adhesive for resilient and textile floor and wall coverings

- **APPLICATION:**
  - ◊ Apply adhesive with a roller or small-notched trowel evenly on both the covering and on the substrate.

MAPEI provides technical data sheets (TDS) for all products which should be read in conjunction with this Work Method Statement. The TDS' can be obtained from www.mapei.com.au, or by clicking directly on the listed products within the PDF.

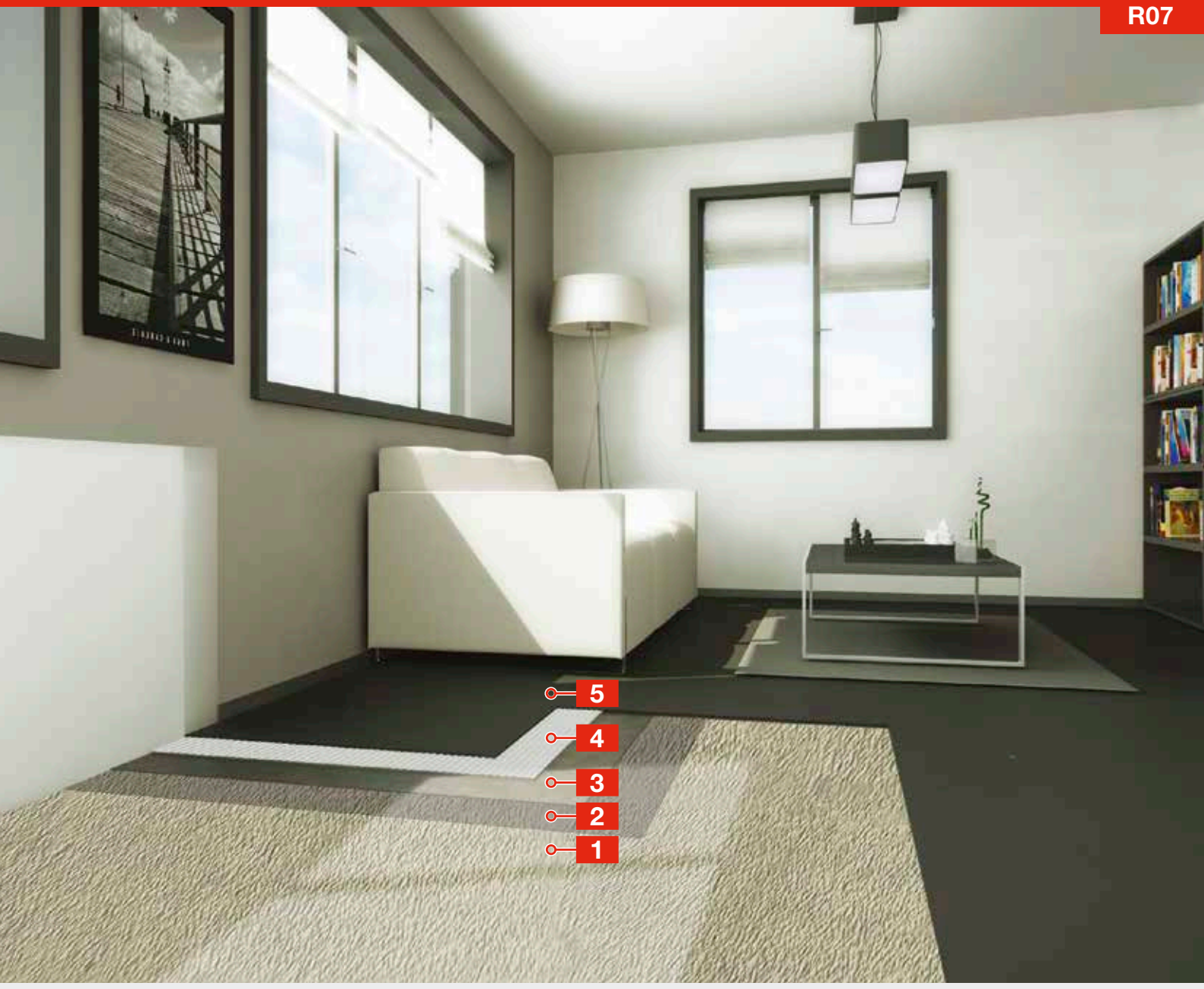
GREEN STAR™ CERTIFIED SYSTEM FOR THE **INSTALLATION OF CARPET OVER A CONCRETE SUBSTRATE**

this system makes it possible to obtain ***GREEN STAR™*** *credits*

GREEN INNOVATION

MAPEI

R07



1	2	3	4	5
properly prepared concrete substrate	*primer* **Eco Prim T Plus**	*levelling compound* **UC Leveller**	*adhesive* **Rollcoll** *or* **Ultrabond Eco 170**	*carpet*

08/17 REV 1

Please refer to the corresponding Work Method Statement for complete list of suitable products and installation information

PART 1 SYSTEM

1.1 REFERENCES

1. AS 2455.1 (2007) Textile floor coverings – Installation practice – Part 1: General
2. AS 2455.2 (2007) Textile floor coverings – Installation practice – Part 2: Carpet Tiles
3. MAPEI Surface Preparation Requirements – Floor Covering Installation Systems
4. MAPEI Technical Notebook – Installing Resilient Wall and Floor Coverings

1.2 CONCRETE SUBSTRATE PREPERATION

All substrates must be structurally sound, dry, solid and stable. Any laitance, dust, grease, oil, paint or curing compounds present on the surface of the concrete substrate that may inhibit bond, shall be mechanically removed. The substrate should then be cleaned and prepared in accordance with the relevant standards and as per the MAPEI technical data sheets (TDS).

1.3 PRIMER

A. ECO PRIM T PLUS (2930-1-2014)

1. Solvent free acrylic primer in water dispersion with very low emissions of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply the primer using a brush or roller diluted in accordance with the TDS.
  - ◊ Ensure no puddling of the primer occurs.

1.4 LEVELLING COMPOUND

Levelling compound to be chosen from the following options:

A. UC LEVELLER (518-01-2017 AUS) ***– GOOD Solution***

1. Fast hardening levelling smoothing compound for thicknesses from 3 mm to 70 mm: especially recommended for pumping.

B. ULTRAPLAN ECO (513-05-2017 AUS) ***– BETTER Solution***

1. Ultra-fast hardening self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 1 to 10 mm per application.

C. ULTRAPLAN (501-05-2017 AUS) ***– BEST Solution***

1. Ultra-fast drying, self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 3 to 15 mm per application.

D. ULTRAPLAN FAST TRACK (4027-05-2017 AUS) ***– FAST TRACK Solution***

1. Ultra-fast drying self-levelling compound for thicknesses from 1 to 10 mm.

- **APPLICATION:**
  - ◊ Spread the levelling compound in thicknesses according to the product used, using a large metal trowel or float, tilting the trowel slightly to obtain the desired thickness.

1.5 ADHESIVE

- **NOTE:** Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatized to the recommended temperatures and R.H.

Adhesive to be chosen from the following options:

A. **ROLLCOLL (222-1-2016 GB)** ***– GOOD Solution***

1. Universal adhesive in water dispersion for vinyl and textile floor and wall coverings.

B. **ULTRABOND ECO 170 (220-1-2017 GB)** ***– BEST Solution***

1. High initial grab and long open time adhesive for textile floorings.

- **APPLICATION:**
  - ◊ Apply enough adhesive to the substrate using a trowel such that it wets the back of the covering completely.

MAPEI provides technical data sheets (TDS) for all products which should be read in conjunction with this Work Method Statement. The TDS' can be obtained from www.mapei.com.au, or by clicking directly on the listed products within the PDF.

SYSTEM FOR THE **INSTALLATION OF VINYL SHEET ON WALLS IN WET AREAS**

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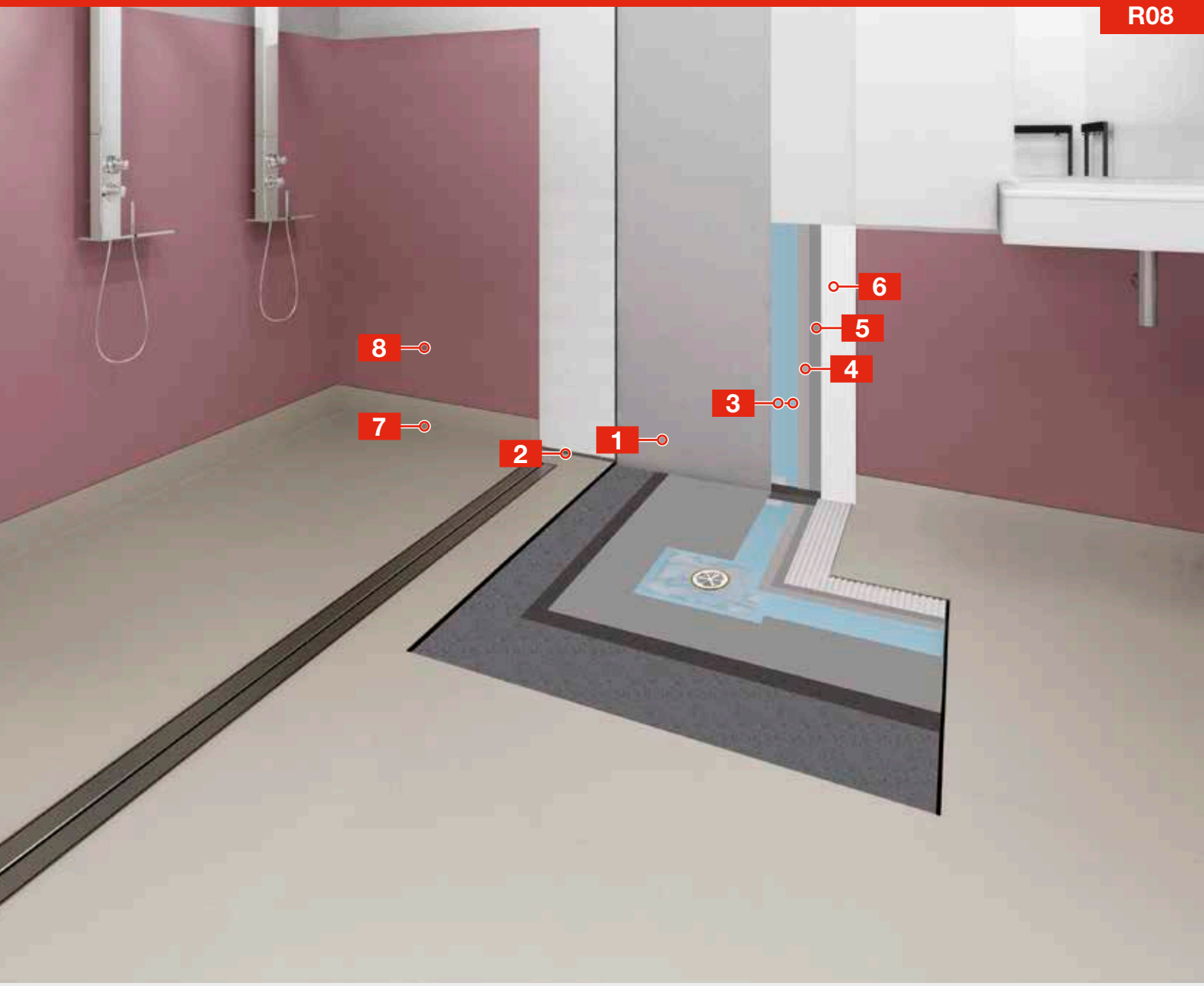
GREEN INNOVATION

MAPEI

R08



1	2	3	4	5	6	7	8
wall substrate	*joint sealant* **Mapeflex PU45 FT**	*(2 coats neat to final film thickness of 1mm)* *waterproofing membrane* **Mapegum WPS**	*primer* **Eco Prim T Plus** *(undiluted)*	*skim coating compound* **Planiprep SC**	*wall adhesive* **Rollcoll**	*coving/cove fillet adhesive* **Mapecontact** *or* **Ultrabond Eco Contact**	*vinyl sheet*

08/17 REV 1

Please refer to the corresponding Work Method Statement for complete list of suitable products and installation information

PART 1 SYSTEM

1.1 REFERENCES

1. AS 1884 (2012) – Floor Coverings – Resilient sheet and tiles – Installation practices
2. AS 3740 (2010) – Waterproofing of domestic wet areas
3. MAPEI Surface Preparation Requirements – Floor Covering Installation Systems
4. MAPEI Technical Notebook – Installing Resilient Wall and Floor Coverings

1.2 GYPROCK OR CFC SHEET SUBSTRATE PREPERATION

All substrates must be structurally sound, dry, solid and stable. Any laitance, dust, grease, oil, paint or curing compounds present on the surface of the concrete substrate that may inhibit bond, shall be mechanically removed. The substrate should then be cleaned and prepared in accordance with the relevant standards and as per the MAPEI technical data sheets (TDS).

1.3 WATERPROOFING MEMBRANE

A. MAPEGUM WPS (2014-12-2012)

1. Fast drying flexible liquid membrane for waterproofing.

- **NOTE:** Prior to the application of the waterproofing membrane:
  - ◊ Ensure a flexible fillet has been applied, with **MAPEFLEX PU45 FT** (8102-10-2016 GB) or **MAPEFLEX PU40** (422-05-2017 AUS), at wall/wall, wall/floor junctions and all other areas where movement is expected,
  - ◊ Ensure the flexible fillet is dried and fully cured.
- **APPLICATION:**
  - ◊ Waterproofing membrane to be applied using a trowel, roller, brush or spray to a minimum final thickness of 1 mm.
  - ◊ Floor waterproofing membrane to be returned up wall substrates over the flexible fillet in accordance with AS3740 and the TDS, and returned down into wastes.
  - ◊ Wall waterproofing membrane to be returned down across the floor substrate over the cured flexible fillet.

1.4 PRIMER

A. ECO PRIM T PLUS (2930-1-2014) - Undiluted

1. Solvent free acrylic primer in water dispersion with very low emissions of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply the primer using a brush or roller undiluted in accordance with the TDS.
  - ◊ Ensure no puddling of the primer occurs.

1.5 SKIM COATING COMPOUND

A. PLANIPREP SC (PR6574, MKT6156, 2013)

1. High performance, fibre reinforced skim coating compound.

- **APPLICATION:**
  - ◊ Apply with a flat steel trowel as desired in thicknesses from feather edge to 25 mm.
  - ◊ Two coats may be require to ensure complete coverage.

1.6 ADHESIVE – WALL VINYL

- **NOTE:** Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatized to the recommended temperatures and R.H.

Adhesive to be chosen from the following options:

A. ROLLCOLL (222-1-2016 GB)

1. Universal adhesive in water dispersion for vinyl and textile floor and wall coverings.

B. ULTRABOND ECO V4 SP (224-8-2015)

1. Universal adhesive in water dispersion for resilient floor coverings, with very low emission of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply enough adhesive to the substrate using trowel such that it wets the back of the covering completely.

1.7 ADHESIVE – COVING

Adhesive to be chosen from the following options:

A. MAPECONTACT (922-6-2011)

1. Double sided reinforced adhesive strip for laying profiles, skirting boards, covings and resilient and textile coatings on steps.

- **NOTE:** Due to the high bond strength, once the coating has been bonded to the adhesive strip, it will not be possible to adjust its position.

B. ULTRABOND ECO CONTACT (6506-5-2016 GB)

1. Solvent free contact adhesive for resilient and textile floor and wall coverings

- **APPLICATION:**
  - ◊ Apply adhesive with a roller or small-notched trowel evenly on both the covering and on the substrate.

MAPEI provides technical data sheets (TDS) for all products which should be read in conjunction with this Work Method Statement. The TDS' can be obtained from www.mapei.com.au, or by clicking directly on the listed products within the PDF.

SYSTEM FOR THE **INSTALLATION OF VINYL SHEET ON FLOORS IN WET AREAS**

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GREEN INNOVATION

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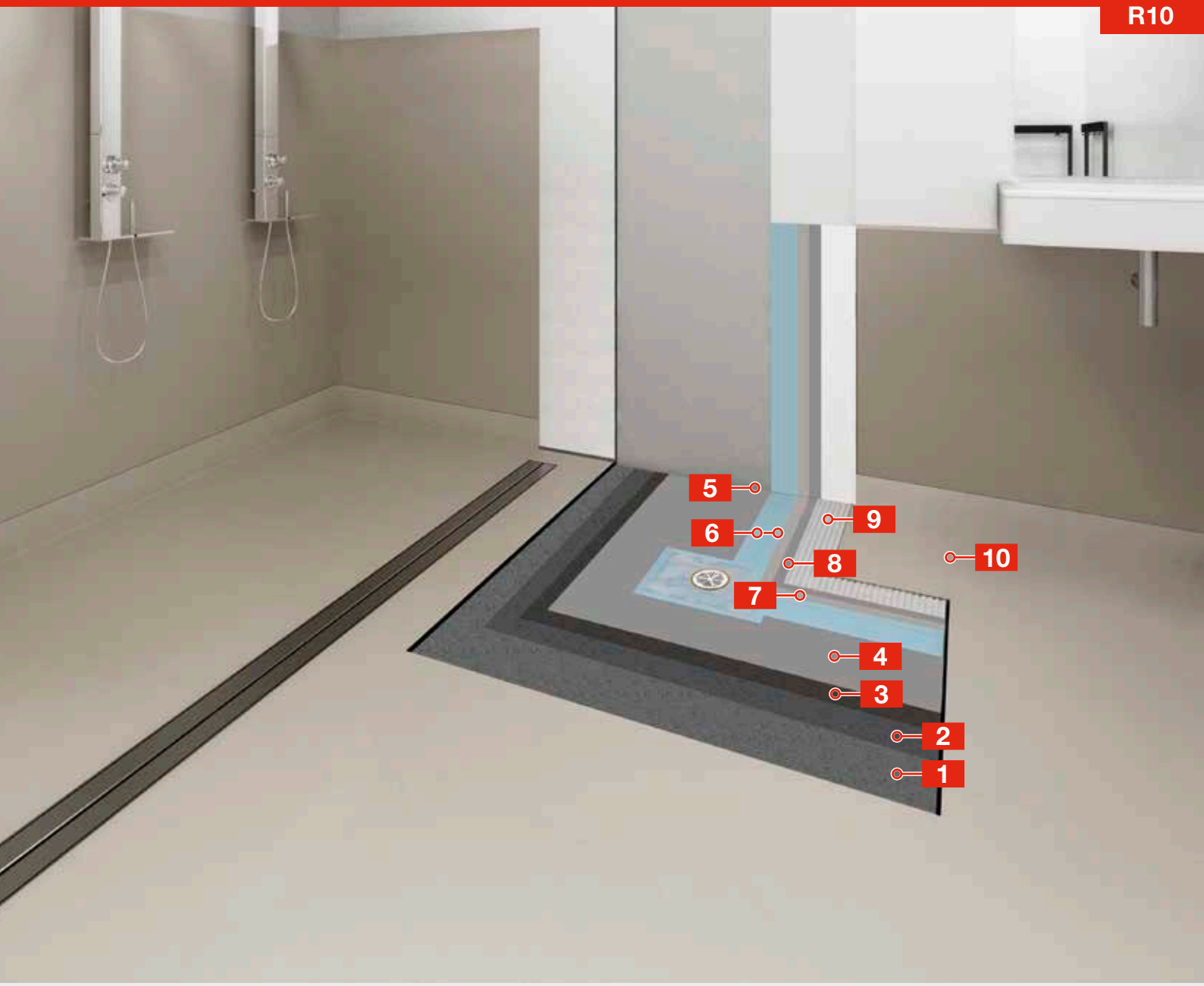

1	2	3	4	5	6	7	8	9	10
concrete substrate	*Create falls to waste* *bonding slurry* **Planicrete SP & Mapecem**	*bonded screed* **Mapecem Pronto**	*moisture vapour barrier* **Primer MF**	*joint sealant* **Mapeflex PU45 FT**	*waterproofing membrane* **Mapegum WPS**	*primer* **Eco Prim T Plus**	*skim coating compound* **Planiprep SC**	*adhesive* **Ultrabond Eco MS 4 LVT/WALL**	*vinyl sheet*

08/17 REV 1

Please refer to the corresponding Work Method Statement for complete list of suitable products and installation information

PART 1 SYSTEM

1.1 REFERENCES

1. AS 1884 (2012) – Floor Coverings – Resilient sheet and tiles – Installation practices
2. AS 3740 (2010) – Waterproofing of domestic wet areas
3. MAPEI Surface Preparation Requirements – Floor Covering Installation Systems
4. MAPEI Technical Notebook – Installing Resilient Wall and Floor Coverings

1.2 CONCRETE SUBSTRATE PREPERATION

All substrates must be structurally sound, dry, solid and stable. Any laitance, dust, grease, oil, paint or curing compounds present on the surface of the concrete substrate that may inhibit bond, shall be mechanically removed. The substrate should then be cleaned and prepared in accordance with the relevant standards and as per the MAPEI technical data sheets (TDS).

1.3 BONDED SCREED

A. MAPECEM PRONTO (210-07-2017 AUS)

1. Pre-blended, ready-to-use, quick-setting and drying (24 hours), controlled-shrinkage mortar for screeds.

- **NOTE:** Prior to the application of the screed:
  - ◊ Ensure a slurry coat of 1 part **PLANICRETE SP** (700-6-2016) mixed with 1 part **MAPECEM** (201-02-2017 AUS) has been applied.
  - ◊ Ensure screed is applied over the slurry coat whilst the slurry coat is still wet.
- **APPLICATION:**
  - ◊ Screed to be in accordance with AS1884 (2012).
  - ◊ Mix **MAPECEM PRONTO** in strict accordance with the TDS paying particular attention to the surrounding environmental conditions.
  - ◊ Ensure a minimum thickness of 10 mm is applied.
  - ◊ If required, ensure adequate falls to waste are created in accordance with Appendix B of AS3740.

1.4 MOISTURE VAPOUR BARRIER

- **NOTE:** Prior to the application of the moisture vapour barrier, relative humidity (RH) readings must be carried out in accordance with AS1884 (2012). For readings <85% RH and falling, a moisture vapour barrier is not required.

Moisture vapour barrier to be chosen from the following options:

A. PRIMER MF (544-11-2016 GB)

1. Epoxy moisture barrier for cementitious substrates.

B. MAPEPROOF 1K TURBO (2918-05-2016 AUS) *<95% RH, 28 day old concrete*

1. One component, solvent free, moisture curing and rapid drying polyurethane surface membrane with a very low emission of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply with a roller, brush or flat trowel in two (2) coats to ensure a glossy film on the surface is achieved.

1.5 PRIMER

Primer not required if a moisture vapour barrier is used.

A. ECO PRIM T PLUS (2930-1-2014)

1. Solvent free acrylic primer in water dispersion with very low emissions of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply the primer using a brush or roller diluted in accordance with the TDS.
  - ◊ Ensure no puddling of the primer occurs.

1.6 WATERPROOFING MEMBRANE

A. MAPEGUM WPS (2014-12-2012)

1. Fast drying flexible liquid membrane for waterproofing.

- **NOTE:** Prior to the application of the waterproofing membrane:
  - ◊ Ensure a flexible fillet has been applied, with **MAPEFLEX PU45 FT** (8102-10-2016 GB) or **MAPEFLEX PU40** (422-05-2017 AUS), at wall/wall, wall/floor junctions and all other areas where movement is expected,
  - ◊ Ensure the flexible fillet is dried and fully cured.
- **APPLICATION:**
  - ◊ Waterproofing membrane to be applied using a trowel, roller, brush or spray to a minimum final thickness of 1 mm.
  - ◊ Floor waterproofing membrane to be returned up wall substrates over the flexible fillet in accordance with AS3740 and the TDS, and returned down into wastes.
  - ◊ Wall waterproofing membrane to be returned down across the floor substrate over the cured flexible fillet.

1.7 PRIMER

A. ECO PRIM T PLUS (2930-1-2014) - Undiluted

1. Solvent free acrylic primer in water dispersion with very low emissions of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply the primer using a brush or roller undiluted in accordance with the TDS.
  - ◊ Ensure no puddling of the primer occurs.

1.8 SMOOTHING COMPOUND

Smoothing Compound to be chosen from the following options:

A. PLANIPREP SC (PR6574, MKT6156, 2013)

1. High performance, fibre reinforced skim coating compound.

- **APPLICATION:**
  - ◊ Apply with a flat steel trowel as desired from feather edge to 25 mm in thickness.

B. LATEXPLAN TRADE (4001-12-2015 UK)

1. Two part smoothing / levelling compound.

- **APPLICATION:**
  - ◊ Pour the mixed levelling compound onto the prepared substrate and spread with a smooth edged trowel to the required thickness from 1 to 10 mm.
  - ◊ Only pour enough levelling compound that can be levelled in the appropriate amount of time before it begins to set. Refer to TDS for setting & curing times.

1.9 ADHESIVE

- **NOTE:** Prior to the application of the adhesive, ensure the adhesive and floor covering are acclimatised to the prescribed temperature.

Adhesive to be chosen from the following options:

A. ADESILEX G19 (252-1-2016 GB)

1. Two-component, epoxy-polyurethane adhesive for resilient and textile flooring.

B. ULTRABOND ECO MS 4 LVT/WALL (5859-1-2017-II GB)

1. One-component, silylated polymer-based adhesive for laying LVT on walls and floors.

- **APPLICATION:**
  - ◊ Apply adhesive using an U1 or V1 notched trowel.
  - ◊ Apply adhesive evenly on as much of the substrate that can be covered with flooring whilst the adhesive is still fresh.

MAPEI provides technical data sheets (TDS) for all products which should be read in conjunction with this Work Method Statement. The TDS' can be obtained from www.mapei.com.au, or by clicking directly on the listed products within the PDF.

SYSTEM FOR THE **INSTALLATION OF VINYL ON STEPS AND SKIRTINGS**

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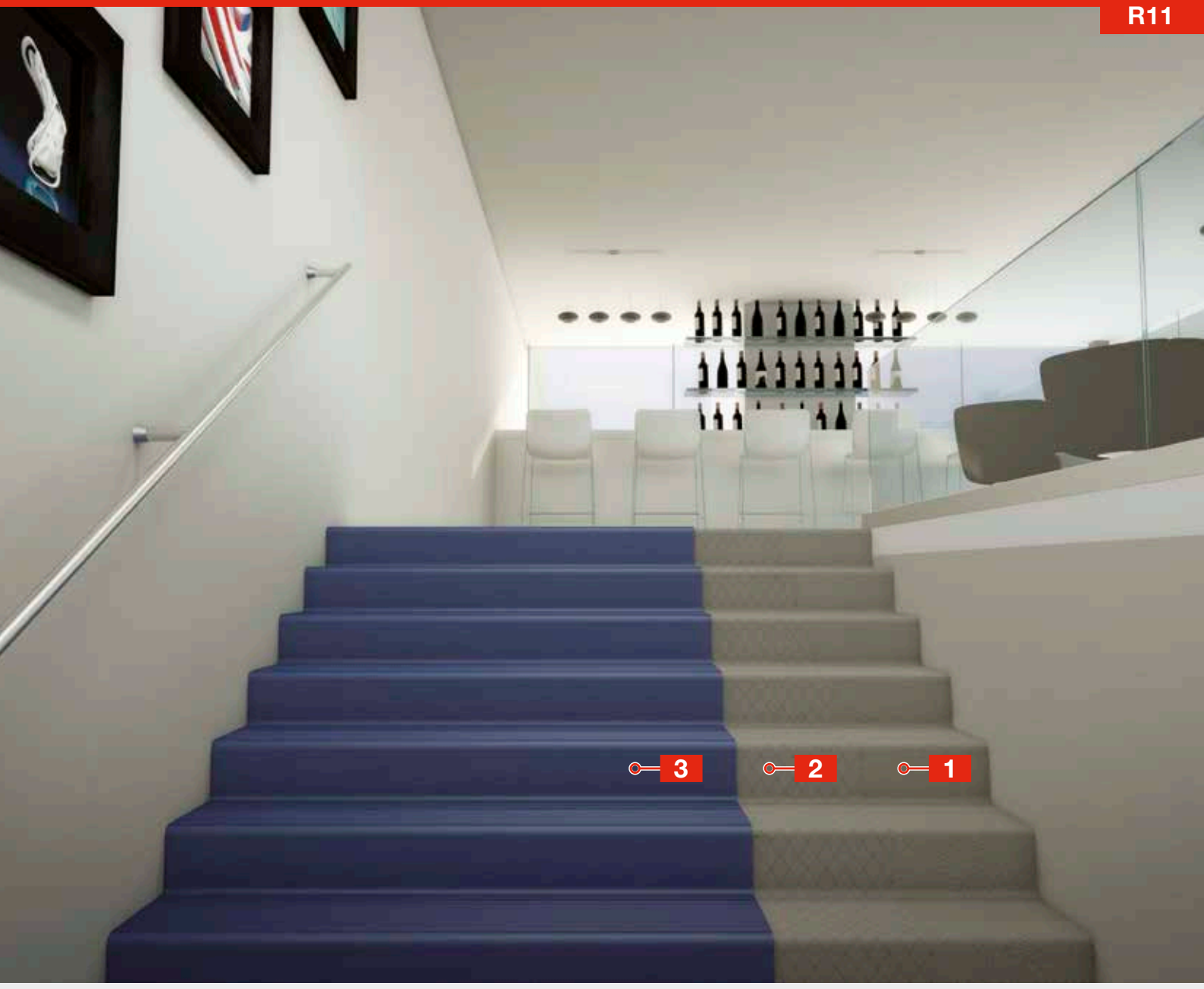
R11



or

concrete substrate

1

double-sided adhesive tape/adhesive
Mapecontact
or **Ultrabond Eco Contact**

2

vinyl steps

3

05/16 REV 0

Please refer to the corresponding Work Method Statement for complete list of suitable products and installation information

PART 1 SYSTEM

1.1 REFERENCES

1. AS 1884 (2012) – Floor Coverings – Resilient sheet and tiles – Installation practices
2. MAPEI Surface Preparation Requirements – Floor Covering Installation Systems
3. MAPEI Technical Notebook – Installing Resilient Wall and Floor Coverings

1.2 CONCRETE SUBSTRATE PREPERATION

All substrates must be structurally sound, dry, solid and stable. Any laitance, dust, grease, oil, paint or curing compounds present on the surface of the concrete substrate that may inhibit bond, shall be mechanically removed. The substrate should then be cleaned and prepared in accordance with the relevant standards and as per the MAPEI technical data sheets (TDS).

1.3 ADHESIVE

Adhesive to be chosen from the following options:

A. MAPECONTACT (922-6-2011)

1. Double sided reinforced adhesive strip for laying profiles, skirting boards, covings and resilient and textile coatings on steps.

- **NOTE:** Due to the high bond strength, once the coating has been bonded to the adhesive strip, it will not be possible to adjust its position.

B. ULTRABOND ECO CONTACT (6506-5-2016 GB)

1. Solvent free contact adhesive for resilient and textile floor and wall coverings

- **APPLICATION:**
  - ◊ Apply adhesive with a roller or small-notched trowel evenly on both the covering and on the substrate.

MAPEI provides technical data sheets (TDS) for all products which should be read in conjunction with this Work Method Statement. The TDS' can be obtained from www.mapei.com.au, or by clicking directly on the listed products within the PDF.

SYSTEM FOR THE **INSTALLATION OF CARPET TILES ON UNEVEN CONCRETE WITH HIGH RESIDUAL MOISTURE CONTENT**

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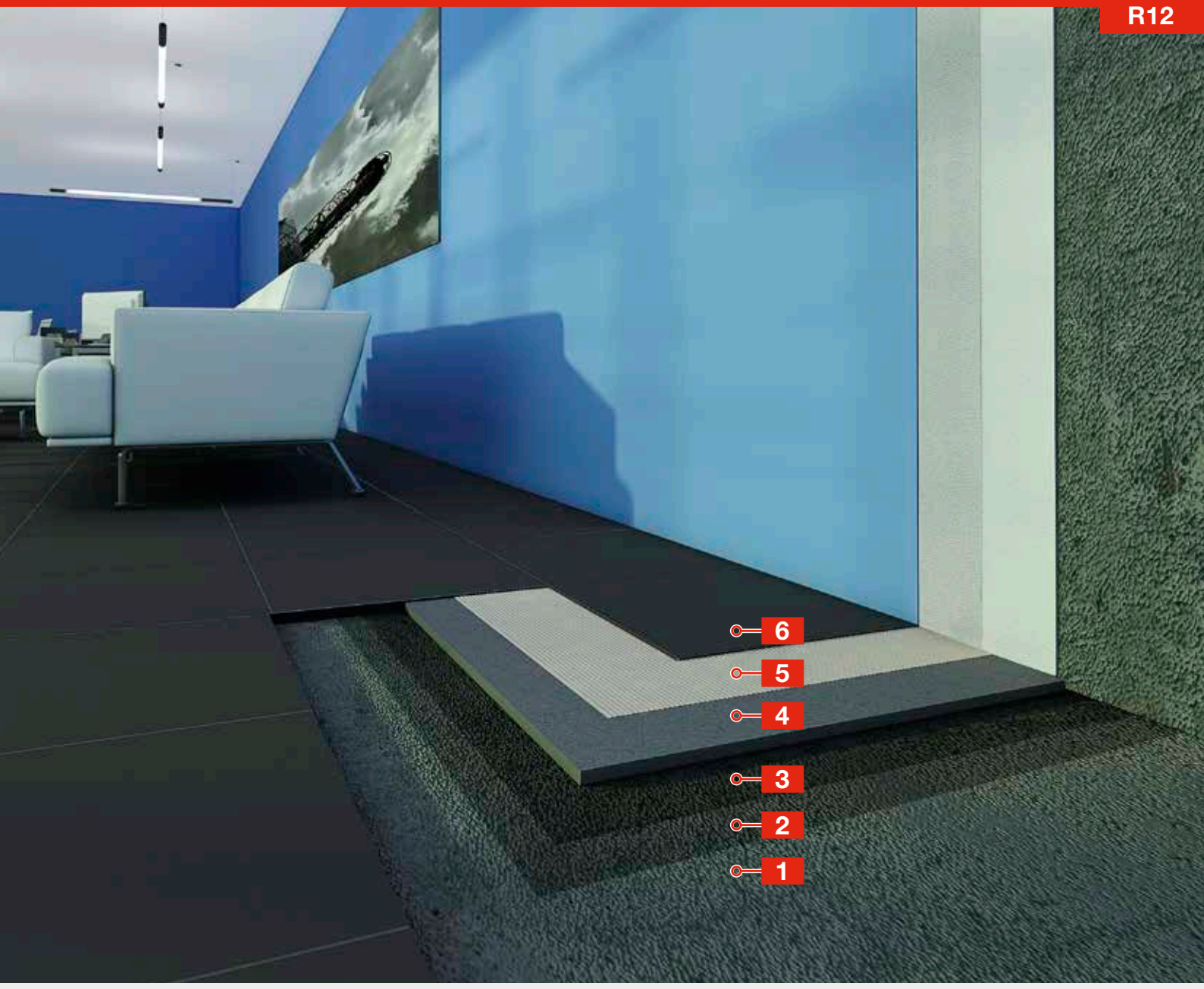
R12



existing uneven concrete	*moisture vapour barrier* **Mapeproof 1K Turbo** *or* **Primer MF**	*primer* **Eco Prim T Plus (undiluted)**	*levelling compound (if required)* **UC Leveller**	*adhesive* **Ultrabond Eco Fix** *or* **Ultrabond Eco Tack**	*vinyl or vinyl-backed carpet tiles*
1	**2**	**3**	**4**	**5**	**6**

08/17 REV 1

Please refer to the corresponding Work Method Statement for complete list of suitable products and installation information

PART 1 SYSTEM

1.1 REFERENCES

1. AS 2455.1 (2007) Textile floor coverings – Installation practice – Part 1: General
2. AS 2455.2 (2007) Textile floor coverings – Installation practice – Part 2: Carpet Tiles
3. MAPEI Surface Preparation Requirements – Floor Covering Installation Systems
4. MAPEI Technical Notebook – Installing Resilient Wall and Floor Coverings

1.2 UNEVEN CONCRETE SUBSTRATE PREPERATION

All substrates must be structurally sound, dry, solid and stable. Any laitance, dust, grease, oil, paint or curing compounds present on the surface of the concrete substrate that may inhibit bond, shall be mechanically removed. The substrate should then be cleaned and prepared in accordance with the relevant standards and as per the MAPEI technical data sheets (TDS).

1.3 MOISTURE VAPOUR BARRIER

- **NOTE:** Prior to the application of the moisture vapour barrier, relative humidity (RH) readings must be carried out in accordance with AS1884 (2012). For readings <85% RH and falling, a moisture vapour barrier is not required.

Moisture vapour barrier to be chosen from the following options:

A. PRIMER MF (544-11-2016 GB)

1. Epoxy moisture barrier for cementitious substrates.

B. MAPEPROOF 1K TURBO (2918-05-2016 AUS) *<95% RH, 28 day old concrete*

1. One component, solvent free, moisture curing and rapid drying polyurethane surface membrane with a very low emission of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply with a roller, brush or flat trowel,
  - ◊ A single coat is usually sufficient, providing a continuous layer with a glossy film on the surface is achieved. For more porous substrates, or substrates in poor condition, a second coat should be applied.
- **NOTE:** Where the subsequent application of levelling compound is to exceed 10 mm, or the area is expected to receive high stresses, MAPEI highly recommend completely saturating the fresh coat of the moisture vapour barrier with **Quartz 1.2**. Once the moisture vapour barrier is dry and fully cured, all excess **Quartz 1.2** is to be removed via vacuum cleaning and the area is to be inspected for any bald spots (*where the moisture vapour barrier has no **Quartz 1.2***). All bald spots shall receive an additional coat of moisture vapour barrier, saturated with **Quartz 1.2** as detailed above.

1.4 PRIMER

- **NOTE: ECO PRIM T PLUS** must be applied once moisture vapour barrier is dry to touch (Approx. 2 hours for **MAPEPROOF 1K TURBO**, 4 hours for **PRIMER MF**) but no longer than 24 hours. Primer not required if moisture vapour barrier was broadcasted with sand.

A. ECO PRIM T PLUS (2930-1-2014)

1. Solvent free acrylic primer in water dispersion with very low emissions of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply the primer using a brush or roller undiluted in accordance with the TDS.

1.5 LEVELLING COMPOUND

- **NOTE:** Levelling compound must be applied 2 to 3 hours after applying the primer, but no longer than 24 hours.

Levelling compound to be chosen from the following options:

A. **UC LEVELLER (518-01-2017 AUS)** ***– GOOD Solution***

1. Fast hardening levelling smoothing compound for thicknesses from 3 mm to 70 mm: especially recommended for pumping.

B. **ULTRAPLAN ECO (513-05-2017 AUS)** ***– BETTER Solution***

1. Ultra-fast hardening self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 1 to 10 mm per application.

C. **ULTRAPLAN (501-05-2017 AUS)** ***– BEST Solution***

1. Ultra-fast drying, self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 3 to 15 mm per application.

D. **ULTRAPLAN FAST TRACK (4027-05-2017 AUS)** ***– FAST TRACK Solution***

1. Ultra-fast drying self-levelling compound for thicknesses from 1 to 10 mm.

- **APPLICATION:**
  - ◊ Spread the levelling compound in thicknesses according to the product used, using a large metal trowel or float, tilting the trowel slightly to obtain the desired thickness.

1.6 ADHESIVE

- **NOTE:** Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatized to the recommended temperatures and R.H.
- **NOTE:** If a levelling compound is not used, the adhesive may be applied directly to the primed moisture vapour barrier. Please note that the curing time of the adhesive is therefore extended.

Adhesive to be chosen from the following options:

A. **ULTRABOND ECO FIX (214-1-2016 GB)**

1. Adhesive in water dispersion with very low emission of volatile organic compounds, with permanent tack for dry-lay floor tiles.

B. **ULTRABOND ECO TACK (213-6-2012)**

1. Acrylic tackifier dispersed in water with a very low emission level of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply adhesive to the substrate with a suitable notched trowel.

MAPEI provides technical data sheets (TDS) for all products which should be read in conjunction with this Work Method Statement. The TDS' can be obtained from www.mapei.com.au, or by clicking directly on the listed products within the PDF.

SYSTEM FOR **INSTALLING LVT PLANKS OVER EXISTING CERAMIC TILES**

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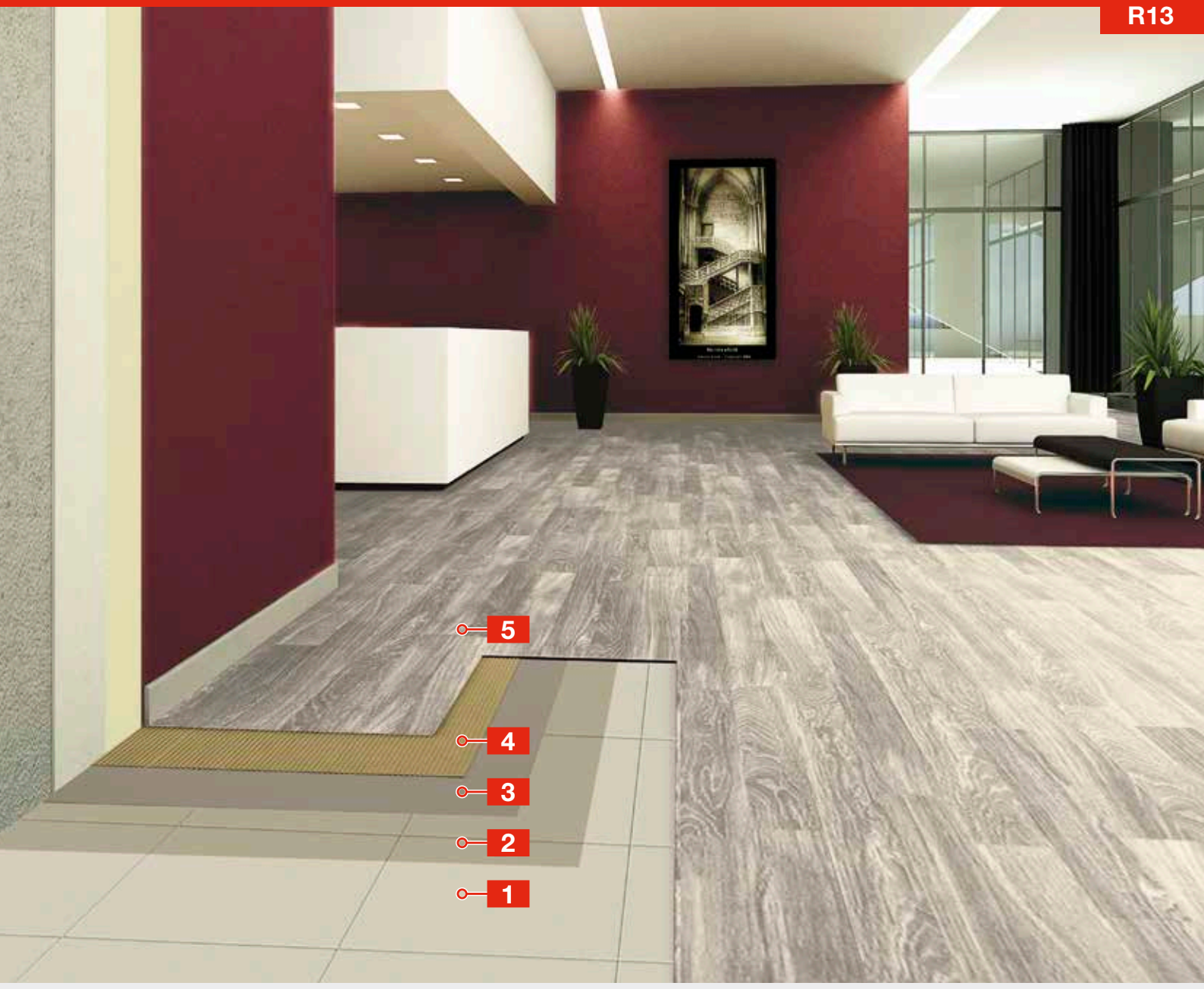

existing tiles

1

or

primer
Eco Prim Grip (fast drying)
or **Eco Prim T Plus (undiluted)**

2

levelling compound
Ultraplan

3

adhesive
Ultrabond Eco VS90 Plus

4

LVT planks

5

Please refer to the corresponding Work Method Statement for complete list of suitable products and installation information

08/17 REV 1

PART 1 SYSTEM

1.1 REFERENCES

1. AS 1884 (2012) – Floor Coverings – Resilient sheet and tiles – Installation practices
2. MAPEI Surface Preparation Requirements – Floor Covering Installation Systems
3. MAPEI Technical Notebook – Installing Resilient Wall and Floor Coverings

1.2 EXISITING CERAMIC TILE SUBSTRATE PREPERATION

1. Any existing loose/dummy tiles and loose/weak/cracked grout with large/deep joints should be removed and filled with **PLANITOP FAST 330**. Narrow grout joints should be filled with **KERAPOXY.**
2. Mechanically prepare the existing ceramic tile substrate using the diamond grind method to remove contaminants and to create a suitable surface profile.
3. All substrates must be structurally sound, dry, flat, solid and stable. Any laitance, dust, grease, oil, paint or curing compounds present on the surface of the exiting ceramic tile floor substrate that may inhibit bond shall be mechanically removed as per point 2. The substrate should then be cleaned and prepared in accordance with the relevant standards and as per the MAPEI technical data sheets (TDS).

1.3 PRIMER

Primer to be chosen from the following options:

A. ECO PRIM T PLUS (2930-1-2014)

1. Solvent free acrylic primer in water dispersion with very low emissions of volatile organic compounds.

- **APPLICATION:**
  - ◊ Apply the primer using a brush or roller undiluted.
  - ◊ Ensure no puddling of the primer occurs.

B. ECO PRIM GRIP (2916-5-2012) ***– FAST TRACK Solution***

1. Multi-purpose, ready-to-use bonding promoter primer made from synthetic acrylic resin and silica inerts with a very low emission of volatile organic compounds (VOC) for render, smoothing and levelling compounds and adhesives for ceramic tiles.

- **APPLICATION:**
  - ◊ Stir ready-to-use primer prior to application, no dilution is required.
  - ◊ Apply primer with either a roller or brush.

1.4 LEVELLING COMPOUND

- **NOTE:** If **ECO PRIM T PLUS** was used, the levelling compound must be applied 2 to 3 hours after applying the primer, but no longer than 24 hours.

Levelling compound to be chosen from the following options:

A. ULTRAPLAN ECO (513-05-2017 AUS)

1. Ultra-fast hardening self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 1 to 10 mm per application.

B. ULTRAPLAN (501-05-2017 AUS)

1. Ultra-fast drying, self-levelling compound with very low volatile organic compounds. Applied in thicknesses from 3 to 15 mm per application.

C. ULTRAPLAN MAXI (510-05-2017 AUS)

1. Ultra-fast drying, self-levelling compound for thicknesses from 3 to 40 mm with very low VOC's.

D. ULTRAPLAN FAST TRACK (4027-05-2017 AUS)

1. Ultra-fast drying self-levelling compound for thicknesses from 1 to 10 mm.

- **APPLICATION:**
  - ◊ Spread the levelling compound in thicknesses according to the product used, using a large metal trowel or float, tilting the trowel slightly to obtain the desired thickness.

1.5 ADHESIVE

- **NOTE:** Prior to the application of the adhesive, ensure the floor covering and substrate are acclimatized to the recommended temperatures and R.H.

A. ULTRABOND ECO VS90 PLUS (5855-9-2015 GB)

1. Universal high temperature adhesive in water dispersion for resilient floor coverings.

B. ULTRABOND ECO V4 SP (224-8-2015)

1. Universal adhesive in water dispersion for resilient floor coverings, with very low emission of volatile organic compounds.

- **APPLICATION:**
  - ◊ Before applying, stir the adhesive in the bucket. Apply adhesive evenly to the substrate using a V1 notched trowel.
  - ◊ Do not apply the adhesive where flooring material cannot be installed with the adhesive open time.

MAPEI provides technical data sheets (TDS) for all products which should be read in conjunction with this Work Method Statement. The TDS' can be obtained from www.mapei.com.au, or by clicking directly on the listed products within the PDF.

SURFACE PREPARATION REQUIREMENTS
Floor Covering Installation Systems

MAPEI: RG-FC16001
Version: 22/11/2016
Revision: 0

INTRODUCTION

The aim of this Reference Guide is to offer useful guidelines to help correctly prepare substrates for the successful subsequent application of resilient floor coverings.

Fundamentally, an installed system is only as strong as the strength of the weakest bond between two successive materials. The correct preparation of the substrate is the first major step in achieving a successful adhesion.

The correct method of preparing the substrate will differ depending on the substrate material, characteristics and conditions. As each project differs in exposure/condition, specific recommendations may vary from the information contained below. However, MAPEI confirms that the recommendations detailed in this document are suitable for their defined applications.

JOBSITE EXAMINATION

Before work commences, examine the areas to be covered and report any deficiency or adverse condition in writing to the general contractor, owner, developer or architect. Do not proceed with the work until surfaces and conditions comply with the requirements indicated in the manufacturer's instructions, applicable industry standards, federal, state, provincial, local regulations and good work practices. By beginning work, the applicator/user acknowledges that the conditions are acceptable for installation.

SURFACE PREPARATION

1. General

1.1 All substrates must be structurally sound, dry, solid and stable. The substrate should be clean and free of dust, dirt, oil, grease, paint, curing compounds, concrete sealers, loosely bonded toppings, old adhesive residues (unless otherwise recommended by MAPEI) and any other substance that may prevent or reduce adhesion. If the substrate contains these substances, they must be removed via mechanical means. AS 1884:2012 defines mechanical means as:

" 'Mechanical means' is the process of surface preparation performed by application of applied physical forces to the substrate surfaces to remove contamination. For the purposes of installations on concrete this refers to the use of diamond grinders, scarifiers and captive shot blasters. For smaller areas this can include chippers and nail gun type scabblers. When installations are to be performed on timber floors 'mechanical means' refers to floor sanders. Regardless of the means used, the final process in a mechanical preparation is vacuum cleaning."

1.1.1 **Warning:** Do not install over vinyl asbestos tile (VAT) or any flooring, substrate or substance that may contain asbestos. Do not install over any adhesives, including asphalt cutback residue that may have been used to install flooring containing asbestos. Do not sand or remove any existing resilient floors or cutback adhesive that contains asbestos fibers or crystalline silica. For removal instructions, refer to the Resilient Floor Covering Institute's Recommended Work Practices. Follow all local, state and federal regulations and industry standards when mechanical removal is required.

1.1.2 **Warning:** Certain paints may contain lead. Exposure to excessive amounts of lead dust presents a health hazard. Refer to applicable federal, state and local laws regarding appropriate methods for identifying lead-based paint and removing such paint.

1.2 All substrates must be smooth and flat to the tolerances outlined in the appropriate Australian Codes and Standards and flooring manufacturer's guidelines.

1.3 Imperfections and irregularities (holes, voids, bumps, cracks, depressions, etc.) must be corrected, and surfaces must be smooth and even before the application of MAPEI adhesives.

1.4 It is recommended to turn off all air-conditioners, forced ventilation and floor-heating systems 48 hours before installation, and turn them back on no sooner than 72 hours after work completion. Protect work against drafts during installation and again for at least 72 hours after completion to prevent damage to substrates, installation products and flooring materials.

1.4.1 When necessary, build a temporary shelter and use indirect auxiliary heaters to maintain an adequate temperature level in the working environment. Exhaust temporary heaters to the building's exterior to prevent health hazards and damage to workers from toxic fumes and emanations.

1.5 Always refer to the flooring and/or wall-base manufacturer's guidelines regarding site conditions, surface preparation requirements, acceptable underlayment's and proper conditioning of flooring material. In addition, refer to the correlating industry standard(s) such as AS 1884:2012 (Floor coverings–Resilient sheet and tiles–Installation practices), AS/NZS 2455.1:2007 (Textile floor coverings–Installation practice–Part 1: General), AS/NZS 2455.2:2007 (Textile floor coverings–Installation practice–Part 2: Carpet Tiles).

1.6 All recommendations and guarantees regarding any material used as a substrate for flooring are the sole responsibility of the manufacturer of said underlayment material. Suitability of any substrate to receive adhesive and flooring products should always be tested in an inconspicuous location before complete installation.

2. Screeds

2.1 Sand-cement and proprietary screeds must be in accordance with AS 1884:2012 and must achieve a minimum compressive strength of 20 MPa and tensile strength of 1.5 MPa.

2.2 Screed subfloors without polymer additives shall not be used for the installation of resilient flooring and their preparation products.

2.3 Screed subfloors shall be sufficiently dry with a relative humidity within the requirements of the relevant Australian Codes and Standards and the floor covering manufacturer's instructions.

3. Concrete

3.1 As any other substrate described in this guide, concrete floors must be structurally sound, dry, solid and stable. The current standard AS 1884:2012 makes the following comment about concrete.

"(c) Surface new concrete subfloors on which floor preparation material, and the resilient covering are to be laid without underlay, shall be finish to a smooth and porous surface. Burnished concrete surfaces, waterproofing additives, curing compound and other types of treatments or coating will adversely affect the adhesion of the floor preparation and resilient covering to subfloor and shall be removed by mechanical treatments methods. Concrete surface physical defects which also compromise adhesion of flooring systems, such as laitance or rain damage to the concrete surface, shall also to be removed by mechanical preparation methods. All loose materials or dust present either as building debris, or residue from mechanical preparation shall be removed by vacuum cleaning. Surface cosmetic defects such as score marks, grooves or depression shall also be removed either by mechanical preparation methods or the installation of an underlayment."

3.2 Due to the varying characteristics and finishes of concrete substrates, the applicable following recommendations should be followed.

3.2.1 New Concrete

3.2.1.1 Drying and shrinkage cracks occur as the concrete cures. Installing products over "green" concrete will result in cracks telegraphing through the underlayment as they develop in the concrete, to avoid this wait 28 days and repair cracks as per Section 3.2.2. All concrete substrates must be fully cured (minimum 28 days).

3.2.2 Cracked, Damaged, Spalling

3.2.2.1 Unsuitable surfaces, must remove all material down to solid clean substrate. Use hammer to sound out weak, hollow and unsound material. Where cracks are located in the concrete substrate, they should be opened via mechanical means (grinder), then cleaned and vacuumed. These cracks must then be filled using MAPEI **Eporip** or **Epojet**, in accordance with the relevant Technical Data Sheet, and the surface broadcast with sand to aid the bonding of subsequent products.

3.2.3 Release Agents, Curing and Sealing Compounds

3.2.3.1 These products/treatments act as bond breakers, inhibiting the ability of subsequent products to bond to the substrates and also affect curing times. All release agents, curing and sealing compounds, irrespective of the type (including dissipating curing compounds) must be completely mechanically removed.

3.2.4 Steel-trowelled, Highly Burnished, High Strength

3.2.4.1 These represent highly dense, non-porous surfaces with no surface profile, ie smooth. Adhesion without mechanical preparation is questionable. Recommended to remove glazed / dense surface to make rough and open porous matrix of concrete. Due to the varying porosity of concrete substrates, steel-trowelled, highly burnished, high strength surfaces in particular, a bond test should be performed to ensure there is an adequate bond. If an adequate bond is not achieved, the concrete floor should be scarified.

3.2.5 Contaminated Surface

3.2.5.1 This sections refers to concrete substrates that are covered/coated in dirt, oil, grease, paint, laitance, old adhesive residue and any other substance that may prevent or reduce adhesion. Material used to remove oils and grease may also prevent adhesion, therefore recommended to additionally complete mechanical removed down to solid sound uncontaminated concrete.

3.3 All concrete substrates must be free of any hydrostatic and/or moisture problems. The relative humidity of a concrete slab must not exceed 75% in accordance with ASTM F2170 and or 70% in accordance with ASTM F2420, refer to AS 1884:2012. It also must not exceed the flooring or adhesive manufacturer's written limitations for suitable emission

rates. Refer to Technical Data Sheets at www.mapei.com.au for specific limits on MAPEI adhesives, membranes and surface-preparation products.

3.3.1 Where the relative humidity of a concrete slab exceeds the values listed above, but is less than 85%, consult MAPEI's Technical Services Department for further recommendations.

3.3.2 Where the relative humidity of a concrete slab exceeds 85%, use a MAPEI moisture-vapour-emission reduction product. Consult MAPEI's Technical Services Department for product recommendations. Refer to Technical Data Sheets for instructions.

3.3.3 Do not install where a moisture problem is expected.

3.5 For proper bonding of concrete overlays and coatings, it's important to give surface the correct concrete surface profile, or CSP. To help contractors make this assessment, the International Concrete Repair Institute has developed benchmark guidelines for CSP, a measure of the average distance from the peaks of the surface to the valleys. They range from CSP 1 (nearly flat) to CSP 9 (very rough). As a general rule, the thicker the overlay or topping, the more aggressive the profile needs to be. A skim coat requires a light CSP of 2 to 4. For thicker self-levelling or polymer overlays, Mapei recommends a range from CSP 3 to 7. Achieving surface profiles in the higher ranges often requires roughening by shot blasting or scarifying.

4. Timber, Plywood and Particleboard

4.1 All wood underlayments must be recommended and guaranteed by either the wood underlayment manufacturer or the floor-covering manufacturer and comply with the applicable Australian Codes and Standards, refer to AS1884:2012.

4.2 Stripwood subfloors, presswood, chipboard, flakeboard and similar types of dimensionally unstable materials are not acceptable substrates for the installation of MAPEI's surface preparation products and adhesives. Underlayment-grade particleboard and oriented strand board (OSB) may be used under specific conditions when specified by MAPEI and when approved by the floor-covering manufacturer. Follow the floorcovering manufacturer's recommendations regarding acceptable wood underlayments.

4.3 Plywood surfaces must be installed with the smooth side facing up.

4.4 Do not install over a subfloor that is in direct contact with the ground. The requirements of the relevant local regulatory authority for underfloor clearance and provision of ventilators shall be followed. In the absence of such requirements, precautions outlined in AS1884:2012 must be observed.

4.5 Under no circumstances should any floor material be laid over wood underlayment or subfloors that are under conditions that might cause buckling or rotting of wood. Always replace wood subfloors or underlayments that have been subject to water damage.

4.6 In any floor-covering installation, the timber, plywood or particleboard subfloor should be dry and the moisture content should not exceed the moisture content recommended by the wood and/or flooring manufacturer, refer to AS/NZS1080.1 for timber and AS/NZS 2098.1 for plywood.

5. Gypsum Substrates

5.1 All gypsum substrates must be dry, clean, flat and properly primed with the manufacturer's recommended primer or MAPEI's **Primer G, Eco Prim T, Eco Prim T Plus** or **Eco Prim Grip**, refer to relevant MAPEI Technical Data Sheet.

5.1.1 **Note:** Un-primed gypsum substrates may leave a dusty residue on the surface and have a slightly higher porosity factor that could affect the adhesive's open time and weaken the adhesive bond. A complete -installation failure may occur if the substrate is not proper primed before the installation.

5.2 Allow the applied primer to dry completely before installation of the adhesives, waterproofing.

6. Metal Substrates

6.1 Metal may be used under specific conditions: when recommended by MAPEI as a substrate for use with specific MAPEI product, and when approved by the floor/wall-covering manufacturer.

6.2 Metal substrates must be rigid, solidly fixed in place, and free of paint, primer, oil, corrosion or other contaminants.

6.3 Mapei recommends using the adhesive **Adesilex G19** and levelling with **Nivorapid** mixed with **Latex Plus** for installations over metal surfaces.

6.4 Consult MAPEI's Technical Services Department for adhesive recommendations over metal. Refer to Technical Data Sheets for further adhesive details.

7. Existing Floor Coverings

7.1 Existing non-cushioned sheet vinyl, vinyl composition tile (VCT), ceramic tile and cement terrazzo must be firmly bonded, clean, and free of dust, dirt, oil, grease, paint, wax, sealer, soap and any other substance that may prevent or reduce adhesion.

7.1.1 **Warning:** Do not sand or remove any existing resilient floors or cutback adhesive that contains asbestos fibers or crystalline silica. Follow all local, state and federal regulations and industry standards when mechanical removal is required.

7.2 In cases where the existing floor covering has any type of texture (such as raised patterned residential sheet vinyl and tile/grout lines in ceramic), all indentations must be completely levelled. It is required that the grout lines receive a thorough brush cleaning.

7.3 Non-cushioned sheet vinyl with a vinyl or urethane wear layer must be fully adhered (not perimeter-glued) and limited to one layer only. New vinyl and vinyl with a urethane wear layer must be slightly roughened to dull the finish (60-grit sandpaper is recommended). The wear layer must remain intact, and the underlying sheet-vinyl paper should not become exposed. The area must then be vacuumed, mopped and allowed to dry completely.

7.4 **Warning:** Do not install over vinyl asbestos tile (VAT) or any flooring, substrate or substance that may contain asbestos. Vinyl composition tile (VCT) must be limited to one layer only. A commercial-grade wax stripper must be used to remove any dirt, oil, grease, wax or sealer. The area must be neutralized, rinsed well with clean water and allowed to dry completely.

7.5 Ceramic tile and cement terrazzo must be roughened by sanding or shotblasting. The area must then be vacuumed, mopped and allowed to dry completely prior to the application of the selected primer.

7.6 Existing floor coverings not acceptable for the installation of MAPEI surface preparation products and adhesives include the following: self-stick tile, glass tile, linoleum, laminate, fiberglass, poured epoxy floors and other dimensionally unstable and/or nonporous materials.

7.7 Consult the floor-covering manufacturer for approval before installation over existing flooring.

7.8 Consult MAPEI's Technical Services Department for recommendations for levellers and/or adhesives over existing flooring.

7.9 Refer to Technical Data Sheets for details on MAPEI product suitability over existing floor covering.

8. Cutback Adhesive Residues

8.1 Laying over cutback adhesive is often the easier and faster way for floor covering installation. However, this procedure is risky and not recommended because you are relying on the standards of the previous preparation, the bond and the cohesive strength of the old adhesive increasing the possibility of failure.

8.1.1 **Warning:** Do not install over any adhesives, including asphalt cutback residue that may contain asbestos or may have been used to install flooring containing asbestos.

8.1.2 **Warning:** Do not sand or remove any existing resilient floors or cutback adhesive that contains asbestos fibres or crystalline silica. Follow all local, state and federal regulations and industry standards when mechanical removal is required.

8.2 Do not use chemical solvents to remove cutback residue.

8.3 Consult MAPEI's Technical Services Department for adhesive recommendations over cutback adhesive residue.

8.4 Refer to Technical Data Sheets for details on MAPEI product suitability over properly prepared asphalt cutback residues

9. Test Area

This guide is to be used as general reference for preparing substrates to receive Mapei products. We tried to present a large variety of substrate condition however we cannot represent any possible situation that may occur on site.

As such we strongly recommend to complete a test area on site in order to ensure the suitability of the preparation.

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