Waterproofing Systems for Wet areas
Innovativeness and Solution providing in the heart of corporate culture

Henkel was founded in 1876 in Germany by Fritz Henkel and since then has developed into a global company with more than 50,000 employees and a leading role in different industries. In the essence of Henkel business is constant investment in research, product development and applications technology in order to provide the best solutions in the market.

Henkel is the world’s market leader in adhesives, sealants and surface treatments. An integral part of the Adhesive Technologies business sector is the Henkel Building Systems department. With our core categories – Tiling, Flooring, Waterproofing and Thermal Insulation – we provide an internationally acclaimed range of specialized products and system solutions to meet the needs of the construction industry and professional craftsmen. Our long-term experience, extensive know-how, highly innovative technologies and products help our customers to be more successful and efficient, while preserving the Earth’s natural resources.

Henkel Polybit Industries Ltd. is one of the leading manufacturers of waterproofing products and construction chemicals represented in the whole Gulf region with regional offices in UAE, Kingdom of Saudi Arabia, Qatar, Oman, Bahrain and Kuwait. Our manufacturing facilities in UAE and Saudi Arabia allow us to work hand in hand with leading consultants, architects and construction authorities in the GCC region catering to the varied needs of the construction industry.
WATERTITE wet areas – state-of-the-art waterproofing membrane system

WATERTITE for Wet Areas is a cutting edge technology solution for outdoor installation of composite membranes. While spaces exposed to moisture are generally tiled, it must be stressed that a tile covering installed in a wet area does not in itself constitute a waterproof barrier. All wet spaces or damp-proofing in one form or another require waterproofing or damp-proofing in one form or another. The joints in a tile covering should be regarded as pervious.

Derived from the vast experience that Polybit has concerning production and development of various types of waterproofing products, Watertite systems for Wet Areas are designed as per the moisture exposure classes to guarantee the safest and most efficient waterproofing and tiling finish systems.

WATERTITE wet areas key features:

• Higher waterproofing protection:
  WATERTITE systems, with their two component polymer flexible mortar waterproofing slurry, are especially designed for ensuring an unfaultable protection against moisture penetration. All corners, joints, edges, floor drains and pipe penetrations are sealed, for maximum efficiency and durability.

• Micro-bacterial & crack protection:
  The flexible and water-repellent components of WATERTITE systems, enable a higher protection against the usual micro-bacterial organisms which can develop in all moisture exposed areas and in the same time, ensure a better cracking resistance, for a healthier environment and a more aesthetical appearance.

• Easy & fast application:
  The superior workability and easy application features that come along with the products comprised by our WATERTITE systems, lead to a faster application process, thus a significant time saving booster.
Concrete floors and walls in domestic showers, toilets and kitchens classified as rigid surfaces are subjected to occasional or brief exposures to water splashes. The water exposure of such areas are categorized as moderate without hydrostatic pressure in indoor conditions.

Watertite WA 11 system is a composite waterproofing membrane and tile finish system, which is designed for rigid concrete surfaces in indoor conditions and which are exposed to moderate water splashes without hydrostatic pressure.

The different components of the composite waterproofing membrane with tile finish system are as follows:

**Waterproofing System**

**Polyflex** - a two component polymer mortar composite flexible water proofing slurry is applied at a minimum thickness of 2mm in two coats on the concrete surface to protect the underlying screed against moisture penetration.

All corners, joints, edges, floor drains and other penetrations is sealed with **CL252** non-woven sealing tape which is embedded onto the 1st coat of the waterproofing coating.

**Tiling System**

Fixing of standard or ceramic tiles is done with **CM11** cementitious tile adhesive using the thin bed fixing method.

Filling of tile joints ranging from 1mm to 12mm widths is done with a specially formulated polymer modified cementitious joint filling grout **CE33**.

### Advantages of the system

1. Easy & fast application
2. Anti-fungi protection
3. Long lasting quality
4. Creative range of colors

### Technical Properties

<table>
<thead>
<tr>
<th>Polyflex: Two part acrylic modified cementitious waterproofing coating</th>
<th>CM 11: Tile adhesive for indoor and outdoor areas</th>
<th>CE 33 Joint filler</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coverage: 3.6 kg/m² (2mm DFT)</td>
<td>Coverage: 1.8-4.6kg/m²</td>
<td>Application time: 60 mins</td>
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<tr>
<td>Crack bridging: 0.5 mm</td>
<td>Tensile adhesion strength: &gt;1 N/mm²</td>
<td>Bulk density: 1 kg/dm³</td>
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<td>VOC: &lt; 50 g/l</td>
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Images used are for illustration purpose only.
Showers, toilets and kitchens having walls made of plasterboards / gypsum require high protection against moisture and water. The water exposure of such areas are categorized as moderate without hydrostatic pressure in indoor conditions.

Watertite WA 12 system is a composite waterproofing membrane and tile finish system which is designed for providing the moisture barrier system on flexible surfaces like gypsum/plasterboard walls.

The different components of the composite waterproofing membrane with tile finish system are as follows:

**Waterproofing System**

**CL51** - a one component acrylic moisture barrier coating is applied at a minimum thickness of 0.5mm on flexible surfaces like gypsum or plasterboard walls.

All corners, joints, edges, floor drains and other penetrations is sealed with **CL252** non-woven sealing tape which is embedded onto the 1st coat of the waterproofing coating.

**Tiling System**

Fixing of the ceramic covering is done with **CM16** flexible tile adhesive using the thin bed fixing method.

Filling of tile joints ranging from 1mm to 8mm widths is done with a specially formulated polymer modified cementitious flexible joint filling grout **CE40**.

**Advantages of the system**

1. Easy & fast application
2. Suitable for natural stone tiles
3. Micro-bacterial protection
4. Highly flexible and resistant system

**Technical Properties**

<table>
<thead>
<tr>
<th>Component</th>
<th>Properties</th>
</tr>
</thead>
</table>
| **CL 51**: One component sealing film | Coverage: 1 kg/m² (0.5mm DFT)  
Crack bridging: 0.75mm  
VOC: <50g/l |
| **CM 16**: Flexible tile adhesive for indoor and outdoor areas | Bulk density: 1.5 g/cc  
Tensile adhesion strength: >1.0 N/mm²  
Application time: 120mins |
| **CE 40**: Flexible, Water & dirt resistant joint filler | Application time: upto 2hrs  
Bulk Density: 1.1 kg/dm³ |
Public showers or amenities are exposed to and subjected to continuous splashes of water for longer period of time. Such areas are categorized as high water exposure zones without hydrostatic pressure for indoors.

**Watertite WA 14** composite waterproofing membrane and tile finish system is designed for Public showers where the floor and wall surfaces are exposed to continuous water splashes without any hydrostatic pressure for longer duration time.

The different components of the composite waterproofing membrane with tile finish system are as follows:

### Waterproofing System

**Polyflex** - a two component polymer mortar composite flexible water proofing slurry is applied at a minimum thickness of 2mm in two coats on the concrete surface to protect the underlying screed against moisture penetration. All corners, joints, edges, floor drains and other penetrations is sealed with **CL252** non-woven sealing tape which is embedded onto the 1st coat of the waterproofing coating.

### Tiling System

Fixing of the ceramic covering will be done with **CM16** flexible tile adhesive using the thin bed method. Joint filing of the tiles is done with **CE 47** chemical resistant epoxy resin based joint filling grout.

<table>
<thead>
<tr>
<th>Advantages of the system</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Highly durable system</td>
</tr>
<tr>
<td>2. Additional waterproofing power</td>
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<tr>
<td>3. Micro-bacterial protection</td>
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<tr>
<td>4. Easy &amp; fast application</td>
</tr>
</tbody>
</table>

### Technical Properties

- **Polyflex**: Two part acrylic modified cementitious waterproofing coating  
  Coverage: 3.6 kg/m² (2mm DFT)  
  Crack bridging: 0.5 mm  
  VOC: < 50 g/l

- **CM 16** Flexible tile adhesive for indoor and outdoor areas  
  Bulk density: 1.5 g/cc  
  Tensile adhesion strength: > 1.0 N/mm²  
  Application time: 120mins

- **CE 47** Epoxy joint filler for chemical resistant grouting  
  Application time: 90 mins

Images used are for illustration purpose only.
Balconies and terraces are exposed to all kinds of harsh and extreme weather conditions. Such outdoor areas are categorized as moderate water exposure zones without any hydrostatic pressure.

**Watertite WA 15** composite waterproofing membrane and tile finish system is designed for such kinds of water exposures as well as accommodate the related movements of the structure when exposed to harsh weather conditions like UV and rain.

The different components of the composite waterproofing membrane with tile finish system are as follows:

**Waterproofing System**
**Polyflex** - a two component polymer mortar composite flexible water proofing slurry is applied at a minimum thickness of 2mm in two coats on the concrete surface to protect the underlying screed against moisture penetration.

All corners, joints, edges, floor drains and other penetrations is sealed with **CL252** non-woven sealing tape which is embedded onto the 1st coat of the waterproofing coating.

**Tiling System**
Fixing of the ceramic covering is done with **CM16** flexible tile adhesive using the thin bed fixing method.

Filling of tile joints ranging from 1mm to 8mm widths is done with a specially formulated polymer modified cementitious flexible joint filling grout **CE40**.

### Advantages of the system

1. Additional waterproofing power
2. High resistance to temperature/environmental fluctuations
3. Durable range of colors
4. Easy & fast application

### Technical Properties

<table>
<thead>
<tr>
<th>Polyflex: Two part acrylic modified cementitious waterproofing coating</th>
<th><strong>CM 16</strong> Flexible tile adhesive for indoor and outdoor areas</th>
<th><strong>CE 40</strong> Flexible, Water &amp; dirt resistant joint filler</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coverage: 3.6 kg/m² (2mm DFT) Crack bridging: 0.5 mm VOC: &lt; 50 g/l</td>
<td>Bulk density: 1.5 g/cc Tensile adhesion strength: &gt; 1.0 N/mm² Application time: 120mins</td>
<td>Application time: upto 2hrs Bulk Density: 1.1 kg/dm³</td>
</tr>
</tbody>
</table>
Swimming pools are large water body structures which are continuously subjected to high hydrostatic pressures and load. Together with that the tiling finish system is exposed to cleaning chemicals. The water exposure on such structures are categorized as high exposure to permanent internal water pressure, indoors and outdoors.

Watertite WA 16 composite waterproofing membrane and tile finish system is specifically designed for water body structures which are continuously subjected to high water pressure together with cleaning and water purifying chemicals.

The different components of the composite waterproofing membrane with tile finish system are as follows:

**Waterproofing System**

Polyflex - a two component polymer mortar composite flexible water proofing slurry is applied at a minimum thickness of 2mm in two coats on the concrete surface to protect the underlying screed against moisture penetration.

All corners, joints, edges, floor drains and other penetrations is sealed with CL252 non-woven sealing tape which is embedded onto the 1st coat of the waterproofing coating.

**Tiling System**

Fixing of the ceramic tiles or glass mosaic tiles is done using CM17 flexible tile adhesive using the thin bed fixing method. Joint filing of the tiles is done with CE 47 chemical resistant epoxy resin based joint filling grout.

### Advantages of the system

1. Super waterproofing power
2. High chemical resistance
3. Flexible and resistant
4. Easy & fast application

### Technical Properties

<table>
<thead>
<tr>
<th>Polyflex: Two part acrylic modified cementitious waterproofing coating</th>
<th>CM 17 “Stop dust” Flexible tile adhesive</th>
<th>CE 47 Epoxy joint filler for chemical resistant grouting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coverage: 3.6 kg/m² (2mm DFT)</td>
<td>Bulk density: 1.3 g/cc</td>
<td>Application time: 90 mins</td>
</tr>
<tr>
<td>Crack bridging: 0.5 mm</td>
<td>Tensile adhesion strength: &gt;1.5 N/mm²</td>
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<tr>
<td>VOC: &lt; 50 g/l</td>
<td>Application time: 120 mins</td>
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</table>

Images used are for illustration purpose only.
Water holding ponds and structures in water parks and aquariums are underwater areas which are continuously under submerged conditions. The depth of these structures ranges from 1 m to 10 m. The water exposure of such structures are categorized as High exposure to permanent internal water pressure, indoors and outdoors.

**Watertite WA 17** waterproofing system based on combination of Polyurea and Polyurethane technology is designed for such large water body structures which has the capability to provide a watertight system under high hydrostatic or hydrodynamic load conditions.

The different components of the waterproofing system are as follows:

**Waterproofing System**

Apply **PR 20** (Spray applied fast setting Polyurea coating) at a minimum thickness of 2 mm on the concrete to protect the underlying screed against moisture penetration.

All areas exposed to UV will be coated with **PU 20** (UV Resistant Polyurethane coating) at a thickness of 150 microns as a top coat over the Polyurea waterproofing coating.

**Advantages of the system**

1. Highly chemical resistant
2. Durable and flexible under water pressure
3. UV resistant coating
4. Fast turnaround time

**Technical Properties**

<table>
<thead>
<tr>
<th>PR 20: Fast curing polyurea based waterproofing and protective coating</th>
<th>PU 20: 2 component UV stable, polyurethane coating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coverage: 2 lt/m² (2mm DFT)</td>
<td>Coverage: 2.5 m²/l (two coats)</td>
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<tr>
<td>Crack bridging: 3 mm</td>
<td>Abrasion resistance: &lt; 50 mg</td>
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<tr>
<td>VOC: &lt; 50 g/l</td>
<td>Chemical resistance: Good</td>
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</tbody>
</table>

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Industrial kitchens and food processing areas in hospitals and hotels require a high degree of hygiene and clean environment. These kinds of floors are regularly subjected to strong cleaning chemicals to maintain the high level of cleanliness and hygiene to comply with the regulations as laid down by the regulatory authorities. Apart from chemicals these areas are subjected to water which are categorized under high exposure to water without hydrostatic pressure with additional chemical action for indoors.

Watertite WA 18 composite waterproofing membrane and tile finish system is designed for critical floor and wall surfaces which are subjected to cleaning chemicals followed by high pressure water jet to clean the surface of all traces of chemicals.

The different components of the composite waterproofing membrane with tile finish system are as follows:

**Waterproofing System**

A one component polyurethane flexible water proofing coating (PU 35) is applied in two coats at a minimum thickness of 1 mm on the concrete to protect the underlying screed against moisture penetration.

All corners, joints and edges and pipe penetrations, floor drains will be sealed with CL252 sealing strip which is embedded onto the 1st coat of the waterproofing coating.

**Tiling System**

Fixing of the ceramic tiles or glass mosaic tiles is done using CM17 flexible tile adhesive using the thin bed fixing method.

Joint filling of the tiles is done with CE 47 chemical resistant epoxy resin based joint filling grout.

### Advantages of the system

1. Maximum durability
2. Highly chemical resistant
3. Micro-bacterial protection
4. Easy & fast application

### Technical Properties

<table>
<thead>
<tr>
<th><strong>PU 35</strong> Single component, polyurethane based waterproof coating</th>
<th><strong>CM 17</strong> “Stop dust” Flexible tile adhesive</th>
<th><strong>CE 47</strong> Epoxy joint filler for chemical resistant grouting</th>
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</thead>
<tbody>
<tr>
<td>Coverage: 1.2 lt/m² (1 mm DFT) Crack bridging: 2mm</td>
<td>Bulk density: 1.3 g/cc Tensile adhesion strength: &gt;1.5 N/mm² Application time: 120 mins</td>
<td>Application time: 90 mins</td>
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### WATERTITE SYSTEM COMPONENTS

<table>
<thead>
<tr>
<th>SYSTEM NAME</th>
<th>COMPONENTS</th>
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</table>
| WATERTITE WA 11 | 1. POLYFLEX: TWO PART ACRYLIC MODIFIED CEMENTITIOUS WATERPROOFING COATING  
2. CL 252: SEALING TAPE  
3. CM 11: TILE ADHESIVE FOR INDOOR AND OUTDOOR AREAS  
4. CE 33 JOINT FILLER |
| WATERTITE WA 12 | 1. CL 51: ONE COMPONENT SEALING FILM  
2. CL 252: SEALING TAPE  
3. CM 16 FLEXIBLE TILE ADHESIVE FOR INDOOR AND OUTDOOR AREAS  
4. CE 40 FLEXIBLE, WATER & DIRT RESISTANT JOINT FILLER |
| WATERTITE WA 14 | 1. POLYFLEX: TWO PART ACRYLIC MODIFIED CEMENTITIOUS WATERPROOFING COATING  
2. CL 252: SEALING TAPE  
3. CM 16 FLEXIBLE TILE ADHESIVE FOR INDOOR AND OUTDOOR AREAS  
4. CE 47 EPOXY JOINT FILLER FOR CHEMICAL RESISTANT GROUTING |
| WATERTITE WA 15 | 1. POLYFLEX: TWO PART ACRYLIC MODIFIED CEMENTITIOUS WATERPROOFING COATING  
2. CL 252: SEALING TAPE  
3. CM 16 FLEXIBLE TILE ADHESIVE FOR INDOOR AND OUTDOOR AREAS  
4. CE 40 FLEXIBLE, WATER & DIRT RESISTANT JOINT FILLER |
| WATERTITE WA 16 | 1. POLYFLEX: TWO PART ACRYLIC MODIFIED CEMENTITIOUS WATERPROOFING COATING  
2. CL 252: SEALING TAPE  
3. CM 17 “STOP DUST” FLEXIBLE TILE ADHESIVE  
4. CE 47 EPOXY JOINT FILLER FOR CHEMICAL RESISTANT GROUTING |
| WATERTITE WA 17 | 1. PR 20: FAST CURING POLYUREA BASED WATERPROOFING AND PROTECTIVE COATING  
2. PU 20: 2 COMPONENT UV STABLE, POLYURETHANE COATING |
| WATERTITE WA 18 | 1. PU 35: SINGLE COMPONENT, POLYURETHANE BASED WATERPROOF COATING  
2. CL 252: SEALING TAPE  
3. CM 17 “STOP DUST” FLEXIBLE TILE ADHESIVE  
4. CE 47 EPOXY JOINT FILLER FOR CHEMICAL RESISTANT GROUTING |

### WATERTITE PRODUCT SELECTOR

<table>
<thead>
<tr>
<th>WATERTITE SYSTEMS</th>
<th>POLYFLEX</th>
<th>PR 20</th>
<th>PU 20</th>
<th>PU 35</th>
<th>CL 51</th>
<th>CM 11</th>
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