

# WONDER-FLEX

PU ADHESIVE FOR FIXING TILES AND STONES



## Advantages



Easy and  
light to  
spread

Open and  
adjustability  
time  $\geq 40$   
minutes



Excellent  
durability and  
resistance to  
ageing

Perfect  
adhesion to all  
surfaces used  
in building



## Product Description

Wonder-Flex is two components polyurethane based 100% solid rection adhesive with no vertical slip-on deformable substance. It is classified as R2T as per EN 12004 and type 5 T S2 as per IS 15477 : 2019.

## Field of Application

- Wonder-Flex is indented for indoor and outdoor floor, walls.
- Ideal for marble and natural stone that tends to form stains and sag in the presence of humidity.
- Suitable for vitrified tiles, ceramics, large formats, low thickness slabs and natural stone.
- Floors and walls in polyurethane resin, glazed tiles, cement-based and resin floor tiles, porcelain tiles - wood, metals, rubber, PVC, linoleum, glass surfaces.

## Product Information

<b>Colour, Mixing Ratio</b>	Component A = White paste; Component B = White paste Component A : Component B = 4:1 (w/w)
<b>Handling &amp; Storage</b>	Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
<b>Packaging</b>	Available in 4 kg unit pack (3.2 + 0.8 kg)
<b>Shelf Life</b>	36 months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5-38°C
<b>Handling Precautions</b>	As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

## TECHNICAL DATA AS PER IS 15477:2019

PROPERTIES	SPECIFICATION
Tensile adhesion strength (After 28 Days):	Dry condition: $\geq 2.0 \text{ N/mm}^2$
Shear adhesion strength	Dry condition: $\geq 6.0 \text{ N/mm}^2$ Heat ageing condition: $\geq 3.0 \text{ N/mm}^2$
Transverse deformation (S2)	$\geq 5 \text{ mm}$

## TECHNICAL DATA AS PER EN 12004

PROPERTIES	SPECIFICATION
Initial Shear adhesion strength:	$\geq 2.0 \text{ N/mm}^2$
Shear adhesion strength:	After water immersion: $\geq 2.0 \text{ N/mm}^2$
Shear adhesion strength after thermal shock :	$\geq 2.0 \text{ N/mm}^2$
Slip resistance	$\leq 0.5 \text{ mm}$

## Technical Characteristics @ 27°C, 55% RH

Property	Result
Adhesive thickness, mm	2 - 10
Pot life, minutes	>40
Open time, minutes	50
Adjustability, minutes	>40
Vertical Slip, mm	$\leq 0.5$
Density, gm/cc	
• Component A	$1.55 \pm 0.03$
• Component B	$1.60 \pm 0.03$
• Mix	$1.58 \pm 0.02$
Set to light foot traffic, hours	24 - 36 hours
Ready to use	3 days for normal use, 7 days before heavy traffic use

\* May vary upon actual surface consumption, porosity of the substrate, ambient temp., trowel size & size of tiles

# WONDER-FLEX

PU ADHESIVE FOR FIXING TILES AND STONES



## Packs



1 kg

4 kg

### Coverage, kg/m<sup>2</sup>\*



With 3mm x 3mm notch trowel:  
16 to 20 sqft/ 4 kg

With 6mm x 6mm notch trowel:  
8 to 10 sqft/ 4 kg

### Cleaning & Maintenance

Residues of Wonder-Flex can be cleaned from tools and covered surfaces with Thinner while the adhesive is still fresh. Once cured, the adhesive can only be removed by mechanical means

## Application Information

- Substrate Temperature - +5°C min / +40°C
- Ambient Temperature - +5°C min / +40°C
- Relative Humidity - up to 80%

## Application Methodology

### Surface Preparation



- Substrates must be compact and consistent, free from dust, oil and grease, free from any rising damp, with no loose, flaky, or imperfectly anchored parts
- The surface must be stable, without cracks and have already completed the curing period of hygrometric shrinkage
- Uneven areas must be corrected with suitable smoothing and finishing products

### Mixing



- Wonder-Flex is prepared by mixing together parts A and B from the bottom upwards, using a low-rev ( $\approx 400$ /min.) helicoidal agitator, respecting the preset ratio of 3.2 : 0.8 of the packs.
- Pour part B into the bucket containing part A, being careful to mix the two parts uniformly until a smooth, even coloured mixture is obtained.
- The user must mix a quantity of adhesive which can be consumed within 1 hour at +27°C.

## Application



- Wonder-Flex must be applied with a suitable, toothed trowel of the type and dimensions most appropriate for the format and type of tiles used.
- Using the smooth part of the trowel, apply a fine layer of product, pressing down onto the surface in order to ensure maximum adhesion.
- Press down each tile into the ribbed adhesive to allow for maximum coverage of the surface.
- Apply firm pressure to the tiles to ensure good contact and covering of the back.
- In environments subjected to heavy traffic, in external applications and wherever high-elasticity fixing system is required, use the double-spread technique to ensure 100% application of the product to the rear of the tiles.

## Precautions

- Do not use in contact with polystyrene or on surfaces which are not fully cured and subjected to moisture rising.
- Do not use partial quantities. A wrong mixing ratio could cause damage during the curing process.
- Do not use Wonder-Flex to bond transparent glass materials.

## Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

## Health and Safety information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet.

- Avoid contact with eyes and skin.
- Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Ensure that there is adequate ventilation in the area where the product is being applied.
- Do not breathe in vapor or spray mist.
- This product is flammable.
- Keep away from sources of ignition.
- In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- In case of skin contact, wash with soap and plenty of water. Get medical attention if irritation develops or persists.

Version No: BPP1/03/2025. Please note that this data sheet supersedes all previous versions.

## BERGER PAINTS INDIA LIMITED

Berger House, 129 Park Street, Kolkata 700 017 | **CONSUMER RELATIONS MANAGER** Ph: 1800-103-6030  
Fax: 91-33-2249-9729/9009 | SMS BERGER to 56767 | Email: consumerfeedback@bergerindia.com | www.bergerpaints.com