

# **BASECRETE**

**GLOBAL** International Distribution



## **BASECRETE**

**The Premier Waterproof Bondcoat  
with Exceptional Adhesive Qualities**

**Video link: <https://youtu.be/b0Q8jfewJ8o>**



# With more than 85,000 completed projects globally, Basecrete is the trusted product of waterproofing experts

## Description of Basecrete

BaseCrete is a waterproof bondcoat for use in all applications where a solid and durable waterproof barrier is required. BaseCrete will adhere to most surfaces, is resistant to most chemicals and corrosive agents and can withstand a high degree of movement while maintaining its integrity. BaseCrete can be used to protect any concrete structure or surface from deterioration due to water infiltration. In addition Basecrete protects the underlying structure against the corrosive elements often found in water such as salt. BaseCrete is also completely resistant to all the chemicals used in pool maintenance. In industrial applications Basecrete will protect the underlying structure against the destructive effects of many acids and other corrosive agents. Basecrete can be used to protect new construction against deterioration from above agents as well as to repair structures that have already suffered deterioration as a result of water infiltration and/or the effects of corrosive agents. BaseCrete is a versatile multi-purpose overlay product imparting industry leading protection to all types of structures.

## Composition

BaseCrete is a mix of polymers and specialized cement resulting in an extremely dense mortar. The unique polymers impart an exceptional degree of impermeability while the specialized cement adds a degree of adhesion that is unrivaled in the industry today. In addition the product has an exceptionally high degree of elasticity that clearly surpasses the tolerances for movement built in to most structures. The combination of the above factors results in a product that acts like concrete, can be applied like concrete yet is waterproof, adheres to anything and can withstand a considerable amount of movement.

## Applications

BaseCrete can be used anywhere one wishes or needs to protect against water infiltration or the effects of corrosive agents or even both at the same time. The unique elasticity of BaseCrete makes it particularly useful in applications such as suspended pools, overflow gutters for infinity and vanishing edge pools are ideal applications for BaseCrete as are all types of water features.

## TECHNICAL SPECIFICATIONS

**IMPACT STRENGTH**  
19 lbs / 8.6 kg

**COMPRESSIVE STRENGTH 7050**  
psi / 48.61 MPa

**TENSILE STRENGTH**  
732 psi / 5.05 MPa

**FLEXURAL STRENGTH**  
2380 psi / 16.41 MPa

**ADHESIVE STRENGTH**  
Concrete : 1372 psi / 9.46 MPa  
Steel : 1144 psi / 7.89 MPa

**SHEAR BOND ADHESION**  
720 psi / 4.96 MPa

### ASTM Standards

ASTM E96 – Vapor transmission  
ASTM C321 – Bond Strength  
ASTM C672 – Freeze-Thaw  
ASTM d4541.02 – Pull Off Test

Meets or exceeds all the above  
ASTM standards

## BASECRETE USES:

- As a waterproof bondcoat
- In suspended pools
- To waterproof overflow gutters in infinity and vanishing edge pools
- In Planters
- On any water feature
- In Tanks & Cisterns
- On Balconies
- On Pool decks and Walkways
- To repair any concrete structure
- To Protect against corrosion
- In Parking garages
- On Sea Walls
- On Roofs and Ceilings
- Stucco



## CORROSION PROTECTION

The unique properties of Basecrete make it an ideal solution for most corrosion problems affecting concrete structures today.

Basecrete can be used to protect new structures against the agents that cause corrosion as well as on existing structures that have begun to deteriorate due to the corrosive effects of agents such as water, chlorides or other corrosive agents.

Applying a thin layer of Basecrete on a new structure will prevent water and or chlorides from penetrating into the substrate and damaging the structure through the oxidization of the rebar inside the concrete. Basecrete in addition to being waterproof is highly resistant to common corrosive elements such as chlorides and other acidic elements.

On structures that exhibit damage due to corrosion such as cracking and spalling, Basecrete can be used to repair the damage already done as well as to seal the structure afterwards to prevent further damage taking place.

A common problem is the delamination of the surface layer on concrete structures due to water infiltration. A protective coating of Basecrete underneath the outer layer will eliminate this problem in most cases. Balconies in coastal condos are an excellent example of a concrete structure where a protective layer of Basecrete will eliminate future problems of delamination of the top coat.





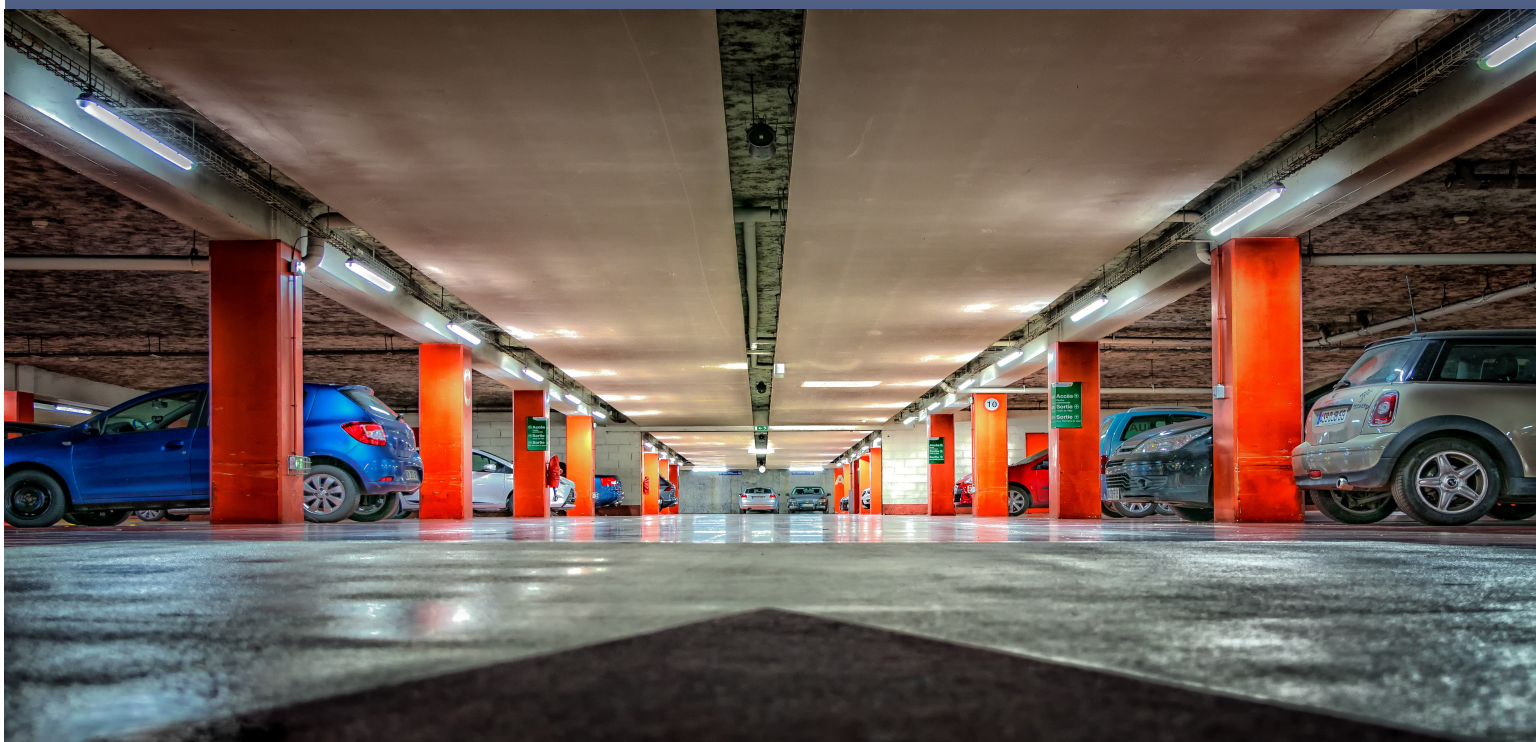
## SUSPENDED POOLS

Suspended pools pose a particular problem for waterproofing due to the structural flexibility built into the design. By their very nature they are designed to move in order to absorb the weight of the water inside the pool as well as the movement in the building itself.

This poses a problem for most traditional cement based bond coats and or waterproofing agents. BaseCrete however is designed to be highly flexible while at the same time maintaining its structural integrity. The flexibility built into Basecrete will far surpass the tolerances for movement built into the structure.

## Parking Garages

Conventional parking garage overlay coatings require several layers of materials and days of curing time before they can be used again. A single layer of Basecrete on a Garage floor will protect the floor for years to come and it can be driven on after 12 hours of cure time. The photo shows a tire skid mark from a Dodge Ram Pick-up having peeled out over a section of Basecrete applied only ONE hour earlier. There was no deterioration or delamination of the Basecrete. Applying a single 1/16<sup>th</sup> inch coat of Basecrete on a Garage floor will protect the concrete for years to come and more importantly the garage will be back in service after only one day.



# Technical Specs

CONCRETE      WATERPROOFING      BOND COAT

## PRODUCT SPECIFICATION

### 1.1 DESCRIPTION

**BASECRETE IS A WATERPROOFING BONDCOAT / UNDERLAYMENT / MICRO TOPPING FOR USE IN ALL APPLICATIONS WHERE A SOLID AND DURABLE WATERPROOF BARRIER IS REQUIRED. BASECRETE WILL ADHERE TO MOST SURFACES, IS RESISTANT TO MOST CHEMICALS AND CORROSIVE AGENTS AND CAN WITHSTAND A HIGH DEGREE OF MOVEMENT WHILE MAINTAINING ITS INTEGRITY. BASECRETE IS A LIQUID AND COMPOUND MIX DESIGN AVAILABLE IN 1 & 5 GALLON PAILS AND 50LB BAGS. BASECRETE IS JOB SITE READY.**

### 2.1 WATERPROOFING APPLICATIONS

<b>WATERPROOF BONDCOAT UNDERLAYMENT MICRO TOPPING STUCCO BARN FOUNDATIONS ANIMAL ENCLOSURES NATURAL RESERVOIRS PARGING</b>	<b>POOL DECKS PLANTERS SCRATCH COAT CRACK REPAIRS FISH PONDS MAN HOLES ICF &amp; EIF MAN MADE REEFS</b>	<b>CISTERNS &amp; WATER RESERVOIRS CATWALKS &amp; WALKWAYS BREAK WALLS PARKING GARAGES AQUATIC ENCLOSURES WILDLIFE WATERING PONDS ZOO ENCLOSURES MOORINGS/JETTY'S</b>	<b>SUSPENDE POOLS COMMERCIAL POOLS RESIDENTIAL POOLS WATER FEATURES SUSPENDE DECKS BYLANDS, DOCKS, PIERS TUCK POINTING ELEVATOR FOUNDATIONS</b>
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### 2.2 APPLICATION METHODS

#### A. *Tools*

BaseCrete can be applied by Trowel, Roller (1" nap), Brush, Squeegee or Spray

#### B. *Thickness*

Apply BaseCrete in two (2) layers, one vertically, one horizontally. Each layer should be 1/16" thick for a total of 1/8" thickness to achieve a waterproof bond coat. The second layer can be applied once the first layer is dry to the touch.

#### C. *Special Applications*

BaseCrete can be built up in 2" increments and feather edged.

### 2.3 COVERAGE

Coverage is approximate for one coat. Slump can be adjusted to accommodate specific job requirements by adjusting the liquid or the compound – do not add water to the mix.

A. *Trowel...* 1 gallon & 1 x 50lb bag = 40-50 sq ft @ 1/8"

B. *Roller...* 5 gallons & 2 x 50lb bags = 400-450 sq ft @25-30 mil

C. *Squeegee...* 5 gallons & 2 x 50lb bags = 250-275 sq ft @40mil

D. *Spray...* 5 gallons & 2 x 50lb bags = 375-450 sq ft @ 10-30 mil

### 2.4 SUBSTRATE PREPARATION

#### A. *Initial inspection*

Inspect job site. Determine if any pervious material used is incompatible with BaseCrete.

#### B. *Preparing Site*

Remove all previous material and any loose debris. Check and repair any cracks or voids with BaseCrete repair mortar. Once the site is clean and clear of any old material, loose debris, cracks etc., pressure wash for final preparation. Protect adjacent areas to prevent material from going beyond designated site.

#### C. *Substrate surface preparation*

Begin with a SSD (Saturated Surface Dry) substrate that is clearly damp below the immediate surface, has no standing water and has a surface that is showing no signs of a "film" of water on the surface. Ideally the concrete will be clearly damp (typically much darker than dry concrete) but the surface will have no water present and will be showing "signs" of drying.

# BASECRETE

CONCRETE      WATERPROOFING      BOND COAT

## 2.5 TEMPERATURE & WEATHER FACTORS

### A. *Product limitations*

Do not allow BaseCrete to freeze or overheat

### B. *Site temperature*

Do not apply BaseCrete to frozen substrate or in conditions hotter than 105 degrees or colder than 40 degrees

Check local weather for temperature variations, precipitation etc that will affect your application.

## 2.6 MIXING INSTRUCTIONS

Mix on site using 5 gallon pails and paddle mixer. Blend product according to manufacturer's instructions on product label. Keep product out of direct sun. Allow product to false set (approximately 5 minutes) and re mix. Pot life is approximately 30 minutes depending on the temperature and humidity. Use mix ratio depending on application method.

### A. *Special Note*

Use BaseCrete liquid to change consistency of mix.

Do not add water to the mix.

### B. *Clean up after mixing*

Clean all tools and spills immediately with clean water.

## 2.7 COLD JONTS and CRACKS

Use BaseCrete Mesh to build rounded coves in corners on all cold joints. Build up with BaseCrete mix.

Use BaseCrete Mesh to fill in and bridge cracks.

## 3.1 HANDLING AND STORAGE

Keep BaseCrete products off the ground. Keep dry and out of direct sun/heat/cold.

## 4.1 CUSTOMER SERVICE

We recommend a BaseCrete Representative attend initial applications.

## 5.1 STANDARDS

A. IMPACT STRENGTH 19 lbs / 8.6 kg

B. COMPRESSIVE STRENGTH 7050 psi / 48.61 MPa

C. TENSILE STRENGTH 732 psi / 5.05 MPa

D. FLEXURAL STRENGTH 2380 psi / 16.41 MPa

E. ADHESIVE STRENGTH

Concrete : 1372 psi / 9.46 MPa

Steel : 1144 psi / 7.89 MPa

F. SHEAR BOND ADHESION 720 psi / 4.96 MPa

G. ASTM E96 – Vapor transmission

H. ASTM C321 – Bond Strength

I. ASTM C672 – Freeze-Thaw

J. ASTM d4541.02 – Pull Off Test

**PULL-OFF ADHESION TEST OF BASECRETE COATING**

**Client:** Basecrete Technologies, LLC

**Date of report:** March 10, 2015

**Report No.:** BT-03-2015-01

**Test Method:** ASTM D7234-12

**Specimen Preparation:** Basecrete Dry Mix and Basecrete Liquid were mixed according to manufacturer's recommendations and applied with trowel to concrete surface (4" (100 mm) thick concrete slab made of Sacrete High Strength Concrete Mix) in two coats. Maximum thickness of the coating was approximately 3/16" (4.76 mm). Two samples, one with color and one without color, were prepared for testing. The samples were allowed to dry for 14 days.

**Test Procedure:** Seven (7) test dollies of 20 mm diameter were installed on the two Basecrete samples using Araldite adhesive. Adhesive was allowed to dry for a minimum of 24 hours. Then the Pull Tests were performed using Elcometer Model 106. A graduated magnifier was used to read the location of the indicator on the Elcometer. The Pull Test Data is presented in Table I.

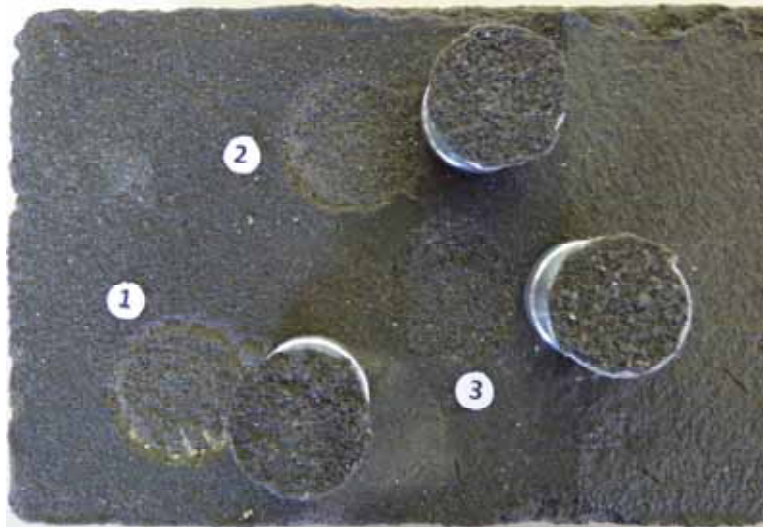
**TABLE I**

<b>Sample Number</b>	<b>Elcometer Reading</b>	<b>Adhesion Strength (psi)</b>	<b>Adhesion Strength (MPa)</b>
1	55	112.75	0.777
2	80	164	1.131
3	60	123	0.848
4	55	112.75	0.777
5	70	143.5	0.986
6	80	164	1.131
7	75	153.75	1.060

Average = 139.1 psi (0.959 MPa) & Standard Deviation = 22.81 psi (0.157 MPa)

**Observation:** All samples showed no delamination between Basecrete and the concrete substrate nor Basecrete and the Dolly surface.

**Photos:**



Samples 1, 2 and 3



Samples 4, 5, 6 and 7

*S.S. Rajpathak*

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President  
Issued on March 10, 2015. (Valid for two years)





**BASECRETE**  
GLOBAL International Distribution

We are currently looking for international distribution partners who have the following capabilities:

1. Established distribution network withing the construction industry in their local market.
2. Experience with importing products.
3. Sales force that is readily available to promote the product to the construction trades.
4. Experience in distributing waterproofing products a plus
5. Retail presence
6. Warehousing facility
7. Connections to concrete manufacturers a plus

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