



# SPECbuild PRIMER E1

## EPOXY RESIN BONDING AGENT FOR CEMENTITIOUS MATERIALS

#### **DESCRIPTION**

**SpECbuild Primer E1** is a two-part epoxy resin bonding agent used to produce a high quality bond between existing concrete surfaces and subsequently applied cementitious or epoxy based materials.

#### **TYPICAL USES**

**SpECbuild Primer E1** may be applied onto clean, sound substrates to promote a high strength bond to cementitious materials such as in the following situations:

- · Concrete repair applications
- · Granolithic floor screeds
- Bonding newly poured concrete to existing concrete

## **ADVANTAGES**

- High mechanical strength
- Produces a bond that exceeds the cohesive strength of the parent substrate
- Provides an impervious barrier to the passage of chlorides
- Solvent free

# **TECHNICAL DATA**

(BS 6319: Pt 2)

Typical results after 7 days @ 20°C

**Compressive strength** 

Slant Shear strength
(BS 6319: Pt 4)

Typical results @ 20°C 30°C

Pot life 6hrs 3hrs

Max. overlay time 20hrs 10hrs
Initial hardness 48hrs 24hrs

50 N/mm<sup>2</sup>

7days

# **APPLICATION**

**Full cure** 

#### **Preparation**

It is essential that adequate preparation is carried out prior to the application of **SpECbuild Primer E1**.

7days

The prepared surface should be free from laitance, dust, algae, oil and grease.

#### **Mixing**

**SpECbuild Primer E1** is supplied in a two component kit, consisting of a base component and a curing agent.

Both of the components should be briefly stirred to ensure that any settlement products are fully suspended.

The entire contents of the curing agent should be emptied into the base component, ensuring that the sides of the curing agent tin are carefully scraped to remove all the material.

The combined materials should then be mixed using a suitable slow-speed drill and mixing paddle for 2 minutes until uniform. The sides of the tin should then be scraped and mixing should continue for a further 2 minutes.

## **Application**

The mixed product may be applied by brush. The theoretical consumption rate is  $5m^2/litre$ .

Where **SpECbuild Primer E1** is used as part of the **SpECbuild** concrete repair system, care should be taken to ensure an unbroken coating. One coat should be applied and allowed to gel. A second coat should then be applied and used to provide the bond.

Where a subsequent repair product is to be applied by spray, then sharp sand may be broadcast into the surface of the second coat of the primer.

## **TEMPERATURE OF APPLIED MATERIAL**

Minimum 5°C Maximum 35°C

To improve mixing and application characteristics, at temperature below 15°C, the material should be stored in an environment above this temperature.

At temperature above 35°C the material may be applied, however, the pot life will be reduced. In these situations therefore, we would recommend that the material should be stored in a cool environment.

#### **PACKAGING AND YIELD**

**SpECbuild Primer E1** is supplied in 1, 2 and 5 litre units. The theoretical consumption rate is  $5m^2$ /litre.

#### **EQUIPMENT CLEANING**

All equipment may be cleaned of uncured material using **SpECtop Cleaning Fluid**.

## STORAGE AND SHELF LIFE

**SpECbuild Primer E1** has a shelf life of 12 months when stored in original, unopened containers in a cool, dry environment.

# **HEALTH AND SAFETY**

Contact with skin and eyes should be avoided. It

is essential that adequate ventilation is provided and that all personnel avoid inhaling the vapours produced. If working is necessary in a confined area it is strongly recommended that sealed respiratory equipment is utilised.

**Eye contact** rinse with copious amounts of

clean water and seek medical

attention.

**Skin contact** rinse with copious amounts of

clean water followed by thorough cleaning with soap and water.

DO NOT USE SOLVENTS

**Ingestion** seek immediate medical attention.

DO NOT INDUCE VOMITING

## **FLAMMABILITY**

**SpECtop Cleaning Fluid** is flammable. Do not expose to naked flame or other sources of ignition.

# **FLASHPOINT**

SpECbuild Primer E1

>150°C

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