

# TITELOCK 100

## High Performance Epoxy Anchoring Grout

### Description

**TITELOCK 100** is a two-component solvent free, thixotropic, epoxy-based adhesive for use as a high strength, non-shrink anchor grouting material. It is used for anchoring applications in horizontal and vertical surfaces in rock, concrete, bricks or solid masonry.

**TITELOCK 100** is designed for most demanding structural applications and rebar connections.

### Features & Benefits

- Fixings closes to free edges.
- Shrinkage free hardening.
- Good resistance to vibrations.
- High load capacity.
- Eco-Friendly
- Can be used in dry and damp concrete.

### Uses

**TITELOCK 100** can be used for the fixing of non-expanding anchors in the following:

#### Structural work:

- ✓ Rebar / steel reinforcement anchoring in new and refurbishment works
- ✓ Threaded rods
- ✓ Bolts and special fastening / fixing systems
- ✓ Mechanical and electrical services installation
- ✓ Anchoring of supports for ducting and equipment

#### Metalwork:

- ✓ Fixing of handrails, balustrades and supports
- ✓ Fixing of railings
- ✓ Fixing of window and door frames

#### In the following substrates:

- ✓ Concrete
- ✓ Hard natural and reconstituted stone
- ✓ Solid rock
- ✓ Hollow and solid masonry
- ✓ Steel

### Technical Properties

Appearance	Thixotropic paste
Color	Grey
Density	1,500 Kg/m <sup>3</sup> approx.
Gelling time	25-30 minutes @ 25 °C
Compressive Yield Strength	67 N/mm <sup>2</sup> @ 7 days
Compressive Modulus	1340 N/mm <sup>2</sup> @ 7 days
Tensile Strength	45 N/mm <sup>2</sup> @ 7 days
Elongation at break	1.8%
Water Absorption	0.3% @ 24hrs
Linear Coefficient of shrinkage	0.003
VOC	<50 g/L

All values are subject to 5-10% tolerance

### Standard Compliance

ASTM C-881 specification for Type I, II, IV and V, Grade 3, Class B and C

### Application Procedures

#### Surface preparation:

Holes should be drilled using rotary percussive drilling techniques. If diamond drilling is used, holes should be scabbled. If these precautions are not taken the smooth finish which obtained from diamond drilling can lead to reduce pull-out strengths. Pre-cast holes should be of dovetail configuration and have roughened sides. After drilling, holes should be brushed and blown out twice, to remove all drilling debris. Bars and bolts should be degreased, and any mill scale or rust should be removed.

Bar reinforcement should be clean and free from rust.

#### Mixing Instructions:

**TITELOCK 100** consists of two components, resin and hardener which are supplied pre-weighed in correct proportions.

Mix the two components well, preferably using a mechanical stirrer until a uniform consistency is obtained.

## Application Instructions:

The mixed grout should be poured or pumped steadily into the prepared holes well within the gel time. The mix should be injected to the bottom of the hole to avoid air entrapment. The bar or bolt should then be inserted into the hole to the required depth using a twisting motion. This will assist in ensuring a complete bond. The assembled bar should be left undisturbed till the grout hardens.

## Health and Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of splashes in the eyes wash abundantly with warm water and consult a doctor.

For further information or particular use, contact SBI Technical Department.

## Consumption

Material consumption per anchor in ml

Anchor Ø mm	Drill Ø mm	Drill hole depth in mm																	
		8	90	110	120	130	140	160	170	180	200	210	220	240	260	280	300	350	400
8	10	3	4	4	5	5	5	6	6	7	7	7	8	8	9	9	10	11	12
10	12	4	5	5	6	6	6	7	8	8	8	8	9	10	10	11	12	14	15
12	14	5	6	6	6	7	7	8	8	9	10	10	11	11	12	13	14	16	18
14	18	9	10	11	14	14	15	18	19	20	22	23	24	26	28	30	32	37	42
16	18	9	10	11	13	14	15	17	18	19	21	22	23	26	28	30	32	36	40
	20	10	12	12	15	16	17	20	21	22	24	25	26	29	31	33	35	40	46
20	24	12	13	14	15	16	18	22	24	26	28	30	32	36	38	42	48	58	66
	25	18	19	21	23	24	26	30	31	32	36	38	40	44	46	50	54	64	72
24	28	24	25	28	30	33	35	40	43	45	50	55	58	60	65	70	75	100	125

## Packaging

**TITELOCK 100** is available in 1 Liter Two-Component Kits.

## Storage

Keep the product in dry and sheltered place at temperature between +5°C to +35°C. In these conditions and in closed original containers, the product will have a shelf life of at least 12 months.

## Quality & Care

All products produced in SBI facilities are manufactured under a management system certified to conform to the requirements of the quality and environmental health & safety standards ISO 9001 & ISO 14001.

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