OBTEGO X-100 (Primer)

Technical Datasheet

Primer for mineral substrates

Description

Low viscosity primer for OBTEGO® X-200 (joint filler) and X-300 (mortar). Prime coat for better adhesion on mineral substrates.

Properties

2-component MMA (methyl methacrylate)

OBTEGO® X-100(A) Resin:
low-viscosity, transparent, solvent-free 2-component methacrylic resin with good penetrating

OBTEGO® X-100/200 (B) Hardener:
Dibenzyl peroxide as starter of the hardening mechanism in OBTEGO® X-100 and OBTEGO® 200 products, respectively.
OBTEGO® X-100/200 (B) Hardener is mixed with OBTEGO® X-100 (A) Resin and sets off a chain reaction and can therefore be regarded as the initiator for a chemical reaction

Scopes of Application

OBTEGO® X-100 is used as prime coat for OBTEGO® X-200 (Joint filler) and OBTEGO® X-300 (Mortar) on concrete and cementisious substrates.

Application fields are all cementitious substrates like e.g. industrial and private areas.

Characteristics of OBTEGO® X-100 in the hardened state

Property	Measuring method	Approx. value
Density	DIN 53 479	1,16 g/cm3
Ultimate elongation	DIN 53 455	7 %
Shore-D	DIN 53 505	D 70 – 80 units
Water absorption, 4 days	DIN 53 495	4 Tage 125 mg (50 • 50 • 4 mm)
Water vapout permaability	DIN 53 122	1,05 • 10-11 g/cm • h • Pa

Note:

Metal vessels (e.g. cups, shovels) are not allowed to handle Dibenzyl peroxide hardener powder. With longer contact there is a risk of deflagration!

Processing

1. The surface to be treated must be solid, clean, dry, absorptive and free of efflorescence, release agents, sintered layers and other undesirable contaminants. Residual moisture must be measured before applying the product. The residual moisture must be <4 CM%, otherwise coloring differences could appear later (patchiness). No rising moisture (according to ASTM D4263 (PE-foil test)). (TRAMEX device < 5% display value).

2. The necessary quantity of OBTEGO® X-100/200 (B) Hardener must be adapted to particular substrate temperatures. For the exact quantities, please refer to the table OBTEGO® X-100/200 (B) Hardener - dosages. Do not go below dosing limits of OBTEGO® X-100/200 (B) Hardener, as this will compromise the curing process. You must also avoid overdosing of OBTEGO® X-100/200 (B) Hardener, as this can also lead to serious curing problems. In order to guarantee good penetration into the substrate with the pot life suitable batch quantities shall be prepared.

3. The material must be applied as soon as OBTEGO® X-100/200 (B) Hardener has finished dissolving in OBTEGO® X-100(A) Resin.

Guidline recipe and batch quantities

Item	Component	Guidline recipe (% by weight)	Comments	Batch for 10 litre bucket
1	OBTEGO® X-100(A) Resin	100%	Average consumption 400g/m²	10kg
2	OBTEGO® X-100/200 (B) Hardener	3% related to item 1	See OBTEGO® X-100/200 (B) Hardener dosages	300g

OBTEGO® X-100/200 (B) Hardener - dosages

Temperature	OBTEGO® X-100/200 (B) Hardener*	Pot life approx. min	Hardening time approx. min.
-10°C	7,0	22	60
0°C	5,0	15	40
+20°C	3,0	12	30
+30°C	2,0	10	25

* The quantity of OBTEGO® X-100/200 (B) hardener is always related to the quantity of resin.

4. OBTEGO® X-100 must be applied evenly without leaving puddles by means of a paint roller or brush. Heavily absorbent patches must be reprimed wet in wet before hardening until the pores are closed up.

5. OBTEGO® X-100 must be completely cured before any further coats or subsequent coating with OBTEGO® X-200 (Joint filler) or OBTEGO® X-300 (mortar) is applied.

Note:

Protect adjacent surfaces against splashes.

Productiveness

Depending on the surface absorption, the following values are supposed. Reference values:

OBTEGO® X-100(A) Resin: Average consumption 400g/m²

Storage

OBTEGO® X-100(A) Resin. Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container, approximately 12 months in original container at 10-25°C storeable. Protect from direct sunlight.
OBTEGO® X-100/200 (B) Hardener: Keep container tightly closed in a cool, well-ventilated place. Keep/Store only in original container, approximately 6 month in original container at 10-25°C storeable. Storage class: 5.2 – Organic peroxides and self-reactive substances.

Environmental Protection

OBTEGO® X-100(A) Resin: Waste codes/waste designations ac-cording to EWC/AVV. 07 02 08 * other still bottoms and reaction residues. * Evidence for disposal must be provided. Waste codes/waste designations according to EWC/AVV. 15 01 10* packaging containing residues of or contaminated by dangerous substances. *Evidence for disposal must be provided.

OBTEGO® X-100/200 (B) Hardener: Do not allow to enter into surface water or drains. Waste code product: Waste codes/waste designations according to EWC/AVV 16 09 03 * peroxides, for example hydrogen peroxide. *Evidence for disposal must be provided:
Waste code packaging: Waste codes/waste designations according to EWC/AVV 15 01 02 Plastic packaging.

Safety:

OBTEGO® X-100 is harmless to health after curing. A good ventilation should be provided during and after the processing of OBTEGO® X-100(A) Resin and OBTEGO® X-100/200 (B) Hardener, respectively. Additionally wear protection equipment (e.g. Suitable respiratory protection apparatus: Filter P2). Material Safety Datasheet: www.obtego.com, is available on request.

Labelling according to Regulation (EC) No. 1272/2008 [CLP].

Identification marking for transportation:

OBTEGO® X-100(A) Resin:

PU	PU-marking	Transport document
a	class 3, UN 1866	yes, UN 1866, class 3, PG II; Resin solution,(D/E)

OBTEGO® X-100/200 (B) Hardener:

PU	PU-marking	Transport document
a	class 3, UN 3106	yes, UN 3106, class 5.2; ORGANIC PEROXIDE TYPE D, SOLID

Ingredients:
OBTEGO® X-100(A) Resin = Methyl methacrylate

OBTEGO® X-100/200 (B) Hardener = Phlegmatized dibenzoyl peroxide

OBTEGO® X-100(A) Resin:
Highly flammable liquid and vapour. Contains gas under pressure; may explode if heated. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. Contains tetramethylene dimethacrylate, methyl methacrylate. May produce an allergic reaction. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water/... . Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container to an appropriate recycling or disposal facility.

OBTEGO® X-100/200 (B) Hardener
Heating may cause a fire. May cause an allergic skin reaction. Causes serious eye irritation. May damage the unborn child. Very toxic to aquatic life with long lasting effects. Contains dibenzoyl per-oxide, dicyclohexyl phthalate. May produce an allergic reaction. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Protect from sunlight.
Dispose of contents/container to an appropriate recycling or disposal facility.

Packaging Unit (PU)

OBTEGO® X-100(A) Resin:	5kg tinplate canister Art.Nr.: OX100-A
OBTEGO® X-100/200 (B) Hardener:	1kg bag in a box Art.Nr.: OX100-200-B

Tyto informace byly získány na základě našich nejlepších a nejnovějších zkušeností, poznatků a vývoje. Mohou se vyvíjet a měnit a slouží pouze jako nezávazné doporučení, které je obecně platné a nelze jej použít jako základ ručení. Použití a aplikace výrobků je prováděna mimo naši kontrolu a podléhá tak Vaší odpovědnosti zkontrolovat si vhodnost použití pro daný účel na konkrétním povrchu a při lokálních podmínkách. Vždy doporučujeme si provést zkoušku / vzorek na nenápadném místě, aby byla vidět kompatibilita s daným podkladem a konečný výsledek.