

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.

Characteristics of OBTEGO X-100 in the hardened state

Property	Measuring method	Value
Density	DIN 53 479	approx. 1,16 g/cm ³
Ultimate elongation	DIN 53 455	approx. 7%
Shore-D	DIN 53 505	approx. D 70 – 80 units
Water absorption	DIN 53 495	approx. 4 days 125 mg (50x50x4 mm)
Water vapour permeability	DIN 53 122	approx. 1,05 x 10 ⁻¹¹ g/cm x hPa

Application

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

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

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!

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.

Guideline recipe and batch quantities at 20°C

Item	Component	Guideline recipe (% per weight)	Comments	Batch for 10 liter bucket
1	X-100(A)	100%		10 kg
2	X-100/200(B)	3% related to item 1	See „OBTEGO X100/ 200(B) Hardener-dosages“	0,3 kg

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

Temperature	X-100/ 200(B)*	Pot life in minutes (approx.)	Hardening time in minutes (approx.)
-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.

OBTEGO X-100 (Primer).

Environmental Protection

Not empty into drains.

Water hazard class: WGK 1 (slightly hazardous to water).

Waste codes/waste designations according to EWC/AVV:

OBTEGO X-100(A) Resin:

07 02 08* other still bottoms and reaction residues. (* Evidence for disposal must be provided.) Dispose of waste according to applicable legislation.

OBTEGO X-100/200(B) Hardener:

16 09 03* peroxides, for example hydrogen peroxide. (*Evidence for disposal must be provided.) Dispose of waste according to applicable legislation.

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).

Ingredients:

OBTEGO X-100(A) Resin: Methyl methacrylate

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

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

OBTEGO X-100(A) Resin:



Danger

Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. May cause respiratory irritation. Contains 1,4-Butandiol dimethacrylat; N-Hydroxyethyl-N-methyl-p-tolu-idine. May produce an allergic reaction.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take action to prevent static discharges. Avoid breathing dust/fume/gas/ mist/vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection. In case of fire: Use CO₂, dry chemical powder, or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/container at a suitable recycling or disposal facility.

OBTEGO X-100/200(B) Hardener:



Danger

Heating may cause a fire. May cause an allergic skin reaction. Causes serious eye irritation. Very toxic to aquatic life with long lasting effects. Contains dibenzoyl peroxide. May produce an allergic reaction.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep only in original packaging. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. In case of fire: Use CO₂, dry chemical powder, or water spray to extinguish. Store in a well-ventilated place. Dispose of contents/container in accordance with local/regional/national/international re-gulations.

GISCODE: RMA10 Coatings, containing methylmethacrylate, irritant

Identification marking for transport:

OBTEGO X-100(A) Resin:

PU	PU-marking	Transport documents
a	class 3 UN1866	yes, UN1866 RESIN SOLUTION; class 3 Packing group II

OBTEGO X-100/200(B) Hardener:

PU	PU-marking	Transport documents
a	class 5.2 UN3106	yes, UN3106 ORGANIC PEROXIDE TYPE D, SOLID; class 5.2

Packaging Unit (PU)

OBTEGO X-100(A) Resin:

5kg tinplate canister

OBTEGO X-100/200 (B) Hardener:

0,5kg bag in a box

This information should only be a non-binding advice. The use of the products is based on local circumstances and on the surface itself. If there is no experience, and in cases of doubt, we recommend to try the product on an inconspicuous spot.