OBTEGO X-200 (Joint filler)

Technical Datasheet

Joint filler for mineralic substrates

Description

Highly elastic, modified methacrylate resin for jointing and sealing of mineral surfaces. Ensures a permanent elasticity and a better absorption of underground movements.

Properties

2-component MMA (methyl methacrylate)

OBTEGO® X-200(A) Resin:
Modified Methacrylatresin highly elastic.

OBTEGO® X-100/200 (B) Hardener:
Dibenzyl peroxide as starter of the hardening mechanism in OB-TEGO® 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	Approx. value
Adhesive pull strength	EN ISO 527	2 Nm
Tensile stress at break	EN ISO 527	3.3 n/mm^2
Crack bridging		1.55 mm
Elongation at break	EN ISO 527	157%

Scopes of Application

OBTEGO® X-200 is used as joint filler on concrete and cementitious substrates. Furthermore, OBTEGO® X-200 can be used for sealing of walls and floor areas. For indoor and outdoor use.

Application fields are all cementitious substrates like industrial floors in logistic centers, super markets, 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!

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. Use OBTEGO® X-100 to prime the surface. Let it dry completely. Please refer to technical datasheet of OBTEGO® X-100.
3. Put sealing cord or similar into the joint.
4. Stir container of OBTEGO® X-200 (A) Resin thoroughly.
5. Transfer the required volume of OBTEGO® X-200(A) Resin into a suitable container.
6. Accordingly 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.
7. The materiál must be applied as soon as OBTEGO® X-100/200 (B) Hardener has finished dissolving in OBTEGO® X-200 (A) Resin.

Guidline recipe and standard batch:

Item	Component	Guidline recipe (% by weight)	Comments	Batch for 10 litre bucket
1	OBTEGO® X-200(A) Resin	100%		10kg
2	OBTEGO® X-100/200 (B) Hardener	1-6% relative to item 1	See OBTEGO® X-100/200 (B) Hardener dosages for quantities	100-600g

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

Temperature	OBTEGO® X-100/200 (B) Hardener*	Pot life approx. min	Hardening time approx. min.
0°C	6,0	20	80
+10°C	4,0	15	60
+20°C	2,0	15	60
+30°C	1,0	8	40

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

Joint:
8. Let OBTEGO® X-200 run steadily into the joint with slight excess.
9. After curing use a floor scraper to remove excessive material. Depending on the drying behavior avoid to remove excessive material too early or too late. Recommendation: The material is well removable in the viscoelastic phase (Guideline 1 – 1,5 hours at room temperature).

Area:
8. Use a roller, notched spatula or smoothing trowel to apply OBTEGO® X-200 in bigger areas. Apply OBTEGO® X-200 bubble free in a thickness of approximately 1 – 1,5 mm.
9. After curing apply a second layer in same thickness.

Note:
Protect adjacent surfaces against splashes.

Productiveness

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

Joint:
Assumption: Joint size depth 10mm x width 5mm: Consumption approximately 100g/running meter

Area:
Average consumption: 1.3 kg/m2 per mm thickness

Storage

OBTEGO® X-200(A) Resin: 6 months storable, if stored in the unopened original container in a cool (< 25 °C), dry and frost-free location, Optimal storage temperature +15 °C to +20 °C. Do not expose to direct sunlight. Storage class: 3 – Flammable liquids
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 code product: Waste codes/waste designations according to EWC/AVV. 07 02 08 * other still bottoms and reaction residues. *Evidence for disposal must be provided. Waste code packaging: 15 01 04 metallic packaging Consult the appropriate local waste disposal expert about waste disposal.

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-200 is harmless to health after curing. A good ventilation should be provided during and after the processing of OBTEGO® X-200(A) Resin and OBTEGO® X-100/200 (B) Hardener, respectively. Additionally wear protection equipment (e.g. Suitable respiratory protection apparatus: Filter A). 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-200(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-200(A) Resin = Modified Methacrylatresin

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

OBTEGO® X-200(A) Resin:

Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. Supplemental hazard information Contains 2-ethylhexyl acrylate, 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/pr tective clothing/eye protection/face protection/hearing protec-tion/.... IF ON SKIN: Wash with plenty of water/.... Store in a well-ventilated place. Keep container tightly closed. Disposal Dispose of contents/container to ....

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-200(A) Resin:	10kg tinplate canister Art.Nr.: OX200-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.