

MasterBrace[®] ADH 1206

Multi – Purpose Epoxy Based Adhesive Especially Developed for Bonding Different Types of Dilatation Tapes

DESCRIPTION OF PRODUCT

MasterBrace ADH 1206 epoxy based, two component, especially developed for bonding different types of dilatation tapes, multi – purpose adhesive.

Complies with EN 1504 – 3/ R4 ve EN 1504 – 4
Complies with BS 6920

FIELDS OF APPLICATION

- Can be used for bonding different types of dilatation tapes (TPO, FPO, EPDM etc.) Before stick PVC based tapes and membranes, please consult with Master Builders Solutions Technical Service teams.
- Can be used in concrete repair and crack repair.
- Can be used in the assembly and bonding of metal, wood and steel materials to concrete and steel structural elements.
- Can be used for sealing the crack in crack injection and fixing the injection packers.

FEATURES AND BENEFITS

- Pasty consistency, easy to apply and non – sag properties in over – head applications.
- Perfect adhesion to concrete and steel.
- Can be applied without primer.
- Resists to freeze – thaw cycles.
- Resists to some chemicals
- Resistant to short – term sudden temperature changes.
- Solvent free.

APPLICATION PROCEDURE

Surface Preparation

The concrete surfaces must be sound, clean and dry. It shouldn't be weakened by over-troweling and lack of curing. The concrete should be free of frost, curing membranes, waterproofing treatments, oil stains, laitance, friable material and dust. If there is a water leakage it must be drained or properly plugged.

Mixing

MasterBrace ADH 1206 has two parts in pails, produced according to right mixing ratio. Material temperature should be between 15 -25°C before mixing. Part B should be added into the Part A without any remaining material in the pail. It should be mixed with using a proper mixer (~300 rpm) for polymer mixing. Mix the parts at least 3 minutes to have a homogenous mixture.

Application Method

MasterBrace ADH 1206, should be applied to the prepared surface by using a steel spatula or steel trowel. Application thickness should be between 1,5-30 mm.

Mixing Ratio

MasterBrace ADH 1206	Part A	Part B
Quantity	3,00 kg	1,00 kg
Mixed Density	1,65 kg/liter	

TECHNICAL DATA	
Color	Dark Grey
Product Chemistry	Epoxy
Application Thickness	Min. 1,5 mm Maks. 30 mm
Pot Life	40 mins
Bonding Strength (7 days)	To concrete > 3,0 Mpa To steel > 3,0 Mpa To TPO Based Dilatation Tape > 2,0 mpa To FPO Based Dilatation Tape > 2,0 Mpa To EPDM Based Dilatation Tape > 1,5 Mpa
Compressive Strength	1 day > 25 Mpa 7 days > 50 Mpa
Flexural Strength	1 day > 15 Mpa 7 days > 20 Mpa
Fully Cured	7 days
Service Temperature	-15°C - +80°C
Re-use after	24 hours

Typical values are obtained from the test results of 4x4x16 mortar prism in 23°C and 50% relative humidity conditions. High temperatures shortens the curing and working time, lower temperatures extends the durations

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COVERAGE

1,65 kg/m²for obtaining 1 mm thick layer.

WATCH POINTS

- During the application the substrate and ambient temperature should be between +5°C - +35°C.
- The packages should be conditioned at +20°C - +35°C to maximize the workability of the material in cold weather.
- Resinous materials' pot life and curing times vary depending on the relative humidity, substrate and ambient temperature. Reaction gets slow in low temperatures and it causes to extension on pot life and working time. On the other hand high temperatures speed up the reaction, which results to short pot life and working time. For full curing of material, both the substrate and ambient temperature shouldn't be under allowed application temperature.
- Do not add any solvent etc into the mixture of **MasterBrace ADH 1206** during the application.
- Mixing should be made with proper mixers and do not allow mixing by hand. .

CLEANING OF TOOLS

After the application all tools should be cleaned with a proper detergent or solvent such as thinner. **MasterBrace ADH 1206** can be cleaned with only mechanical and abrasion after hardening.

PACKAGING

MasterBrace ADH 1206 is sold in sets of 4 in boxes

MasterBrace ADH 1206 Part A: 3,00 kg Plastic Bucket
MasterBrace ADH 1206 Part B: 1,00 kg Plastic Bucket

STORAGE

It should be stored in its unopened original package, in a cool and dry environment, protected from frost. In short-term storage, maximum 3 pallets should be placed on top

of each other, and shipment should be made with a first-in, first-out system. In long-term storage, pallets should not be placed on top of each other.

SHELF LIFE

12 months under proper storage conditions after production date. The opened packages should be re-closed and stored under appropriate storage conditions and should be used within one week.

HEALTH AND SAFETY PRECAUTIONS

It is dangerous to approach the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixtures should not come into contact with skin and eyes; in case of contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children. For detailed information please consult the Material Safety Data Sheet.

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is only responsible for the quality of the product **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

CONTACT INFORMATION

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MasterBrace® ADH 1206 Technical Data Sheet -Revision
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<p>Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti. Barbaros Mah. Begonya Sok. Nidakule Ataşehir Kuzey C Kapısı No:3E/5 34746 Ataşehir/İstanbul 22 DOP NO:04.1504.3.028</p>	
<p>EN 1504-3:2005 MasterBrace ADH 1206</p> <p>Yapısal olan ve yapısal olmayan tamir (Structural and Non-Structural Repair Mortar)</p> <p>Structural Repair Mortar (Yapısal olan Tamir) Sınıf R4 (Class R4)</p>	
<p>3.1 Elle harç uygulaması (Concrete restoration by applying mortar by hand)</p>	
<p>3.2 Yeniden beton dökülmesi (Concrete restoration by recasting with concrete)</p>	
<p>3.3 Harç veya beton püskürtülmesi (Concrete restoration by spraying mortar or concrete)</p>	
Basınç Dayanımı (Compressive Strength)	≥ 45 N/mm ²
Klorür içeriği (Chloride ion Content)	≤ % 0,05
Adezyon Dayanımı (Adhesive bond)	≥ 2,0 N/mm ²
Kontrollü Büzülme / Genleşme (Restrained shrinkage/expansion)	≥ 2,0 N/mm ²
Karbonatlaşma Direnci (Carbonation resistance)	NPD
Yangına tepki (Reaction to fire)	D
Tehlikeli maddeler (Dangerous substances)	Madde 5.4'e uygun (Comply with clause 5.4)

	
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<p>EN 1504-4:2004 MasterBrace ADH 1206</p> <p>Products and Systems for the Protection and Repair of concrete structures - Definitions, Requirements, Quality Control and evaluation of conformity Part 4: Structural Bonding Principal of repair 4: Structural strengthening Repair method 4.4: Bonded mortar or concrete</p>	
Elastic Modulus	≥ 2000 N/mm ²
Compressive Strength	≥ 30 N/mm ²
Shear Strength	>6 N/mm ² Hardened concrete to hardened concrete
	>6 N/mm ² Wet concrete to hardened concrete
Workable life	40 - 60 min (23°C)
Linear Shrinkage	NPD
Coefficient of thermal expansion	≤ 100 x 10 ⁻⁶ / °C
Glass transition temperatures	NPD
Adhesion concrete to concrete : Hardened concrete to hardened concrete	Deformation from concrete
Adhesion concrete to concrete : Wet concrete to hardened concrete	Deformation from concrete
Durability	Pass
Reaction to fire	D
Dangerous substances	Comply with clause 5.4