

TECHNICAL DATA SHEET

OCTO-500 SILVER FLEX

EN 12004 STANDARD

CLASS	CHARACTERISTICS
C1	TE

COMPLIANT WITH EN 12004 STANDARD

ANSI A118.4

Approved American National Standards

ANSI

A118.4ET

Member of Indian Green Building Council

Member of Indian Green Building Council

IS 15477:2019

Type: 2 TE
Adhesive Standards



OCTOPUS™

UNBEATABLE STRENGTH FOR SEAMLESS TILING

GREEN BUILDING RATE

OCTO-500 SILVER FLEX
Category; Inorganic Mineral Products
Mineral Adhesives with SAS technology

rating2

Very low VOC emissions

Can be recycled as inert material

RATING SYSTEM ACCREDITED BY CERTIFICATION BODY SGS

PRODUCT STRENGTHS

For internal installation	Flexible
Smooth and creamy	Easy to apply
Ready to use just mix with water	Long open time
Water & heat resistant	Strong bond and durable

ECO NOTES

Single component; Avoiding the use of plastic cans, reduce CO2 emissions and the need to dispose of special waste can be recycled as inert material, avoiding waste disposal costs and environmental impact with very low-volatile organic emissions.

CONFIRMS

- Confirms IS 15477:2019 Type 2 TE Adhesive standards
- Confirms for ANSI A118.4 shear bond strength requirements, standards
- Confirms with EN 12004/ISO 13007 with a C1TE classification, standards

AREAS OF USE

- Adhesive and finishing
- Floors and walls
- Internal use
- Overlaying
- Saunas and spa (internal)
- Swimming pools and fountains (internal)
- Industrial application
- Commercial application
- Domestic application

MATERIALS ALL TYPES

- Vitrified tiles
- Laminated stoneware
- Low thickness slabs
- Small size tiles
- Terracotta
- Marble & Natural stones
- Recomposed materials
- Ceramic tiles
- Various mosaics

SURFACES

- Existing tiles (Tile on tile)
- Lime and cement-based plasters/ renders
- Cement and gypsum-based plasters/ renders
- Cement-based screeds and mortars
- Brick
- Concrete surfaces
- Cellular Concrete

OCTO-500 SILVER FLEX is a Type -2 tile adhesive, that is specifically designed for installing tile applications perfect for internal installation of small format ceramic, porcelain and vitrified tiles. It provides good bonding strength with an extended open time, allowing for greater flexibility during tile installation. OCTO- 500 SILVER FLEX is easy to use and ideal for use on vertical and horizontal surfaces, including walls, floors, both wet and dry areas.

APPLICABLE STANDARDS

- ANSI A 118.4
- EN / ISO with a C1TE
- IS 15477:2019 Type: 2 TE

PRODUCT DETAILS

PACKAGING	20 KG
COLOUR	Grey
COVERAGE	Approx. 55 Sft per 20 kg pack using 1/4x 1/4 (6mm x 6mm) square notched trowel for a bed of 3mm. Coverage will vary depending on trowel notch size, type and size of tile & substrate smoothness and evenness.

APPLICATION

OCTO-500 SILVER FLEX tile adhesive is ideal for use in internal installations and it provides good bonding strength and is easy to mix, apply, and clean up. When using OCTO-500 SILVER FLEX tile adhesive for tile applications, it is important to follow the manufacturer's instructions carefully.

Achieving optimal adhesion requires a clean and stable substrate. It is necessary to remove all laitance, oil, grease, and similar contaminants through methods such as grinding, wire brushing, chipping, high-pressure water jetting, or chemical etching. Any irregularities in the surface should be leveled off to ensure a superior finish.

The surface to be tiled should be clean, sound, and free of any loose material. The adhesive should be mixed with clean water in the proper proportions and applied using a notched trowel. The tiles should then be pressed firmly into place ensuring that they are level and properly aligned.

Any excess the adhesive should be removed immediately and the tiles should be allowed to set for the recommended time before grouting. One of the many benefits of using OCTO-500 SILVER FLEX tile adhesive is that it can be used for small tiling projects, for good adhesion of small format tiles and durable bond.

INSTALLATION

STEP 1 :

Make the surface clean, dust-free, and moisture-free. Clean the surface and remove the loose particles, dirt, grease, and traces of foreign material from the surface. If necessary, by using a wire brush or sandpaper or by chipping. Before applying the adhesive, wet the surface and blot it dry. Ensure that the area does not have direct sunlight exposure. Remove all loose portions and make good with a sand-cement slurry bonding coat prior to applying the tile adhesive.

STEP 2 :

Mix the required quantity of OCTO-500 SILVER FLEX tile adhesive for loose plaster areas, remove the defective material and re-plaster the area with OCTO-500 SILVER FLEX tile adhesive. The adhesive must be applied using the flat side of the trowel in a scraping motion for good even contact.

STEP 3 :

Apply the tile adhesive on tile or floor with a trowel ensure complete bedding of tile in the mortar or adhesive with 100% coverage. Choose the appropriate notched trowel. For floors or walls that are not even, re-plaster with OCTO-500 SILVER FLEX tile adhesive to make them even. Use the notched edge of the trowel to add more mortar.

STEP 4 :

Let it air dry for 24 hours for a better result, and clean the surface. Remove the dust by cleaning the rear tile face with a damp sponge. Do not soak in water. Use a wet cloth or sponge to remove excess mortar or adhesive from the surface before it dries. The new construction should be curing for a minimum of 3-4 weeks.

SPECIFICATIONS

Specifications are subject to change without notification. The results shown are typical, but reflect the test procedures used. Actual field performance will depend on installation methods and site conditions.

CHARACTERISTICS

OCTO-500 SILVER FLEX tile adhesive is a polymer-fortified adhesive mortar designed for installing small-format tiles on both floors and walls for interior applications. It offers good bonding strength, sag resistance, and workability. OCTO-500 SILVER FLEX tile adhesive is suitable for use with a wide variety of tile including ceramic/vitrified tiles, porcelain, tile-on-tile application, pavers, terracotta, laminated stoneware, marble & natural stones on walls and floors for interior application. It is suited for both vertical and horizontal surfaces on both wet and dry areas. When applied to tile, OCTO 500 SILVER FLEX is typical, but reflect the test procedure used. Actual field performance will depend on installation methods and site conditions.

COMPOSITION AND PROPERTIES OF MIXTURE

The properties of OCTO-500 SILVER FLEX can be further improved by creating a mixture of the adhesive with other materials. This mixture can be customized to suit the specific needs of small tile installation projects. Understanding the composition and properties of a mixture of the tile adhesive is essential for achieving optimum results and ensuring the longevity of the tiled surface. In this composition, we will explore the components and characteristics of OCTO-500 SILVER FLEX mixture and how they can be manipulated to achieve the desired outcome.

PRODUCT IDENTITY

Type	Powder
Colour	Grey
Bulk density (kg/m ³)	1400
Dry solids content (%)	100

COMPOSITION AND PROPERTIES OF MIXTURE (AT +23°C & 50% R.H)

Mixing ratio	100 parts OCTO-500 SILVER FLEX with 26-28 parts water by weight
Consistency of mix	Pasty
Density of the mix (kg/m ³)	1500
pH of mix	Over 12
Pot life	Around 4 hrs
Application temperature	From +5°C to +35°C
Open time	20min
Adjustability time	20min
Ready for grouting on walls	After 4-8 hours
Ready for grouting on floors	After 24 hours
Set to light foot traffic	24 hours
Ready for use	Light traffic, heavy traffic

FINAL PERFORMANCES

Tensile adhesion strength in compliance with ISO 13007 and EN 12004 C1TE classification	
Initial tensile adhesion strength (after 28 days)	1.38 (N/mm ²)
Tensile adhesion strength after heat ageing	1.28 (N/mm ²)
Tensile adhesion strength after water immersion	1.28 (N/mm ²)
Tensile adhesion strength after freeze-thaw cycles	1.30 (N/mm ²)
Resistance to alkalis	Excellent
Resistance to oils	Excellent (poor to vegetable oils)
Resistance to solvents	Excellent
Temperature when in use	From -30°C to +90°C
Shelf life	12 months in the original packing, Protect from humidity
Pack	20 kg
Adhesive thickness	From 2 to 15 mm
Coverage estimates	1.45 to 1.55 kg/m ² /mm

TYPICAL TEST REPORT

OCTO-500 SILVER FLEX

SI.NO	CLASSIFICATION	UNITS OF MEASUREMENT	REQUIREMENT AS PER IS 15477-2019	OCTO - 500 SILVER FLEX	CONFIRMS
1	Adjustment time/ Open time (E)	min	Shall not be less than that stated by manufacturer for (Type 2)	20 min	E 
2	Slip (for vertical application) (T)	mm	Shall not be more than 0.5mm (Type 2)	0.32 mm	T 
3	Deformability (for vertical application) (S1)	mm	<5.0 mm (Type 2)	2.00 mm	
4	28 days Adhesion Strength (normal condition) tensile adhesion strength (C1)	N/mm ²	Type 2 - 1.00 min	1.40 (Type 2)	C1 
5	28 days Adhesion strength (water immersed condition) Tensile Adhesion Strength (C1)	N/mm ²	Type 2 - 1.00 min	1.44 (Type 2)	C1 
6	Shear Adhesion strength 28 days at 70 +/- 3°C	N/mm ²	Type 2 - 1.25 min	1.30 (Type 2)	-
7	Shear Adhesion strength 28 days (Wet condition)	N/mm ²	Type 2 - 1.00 min	1.20 (Type 2)	-
8	Shear Adhesion strength 28 days (Heat aging)	N/mm ²	Type 2 - 1.00 min	1.12 (Type 2)	-
				Type 2 C1TE 	



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