

TECHNICAL DATA SHEET

OCTO-1000 HIGH FLEX

EN 12004 STANDARD



ANSI A118.4



Member of Indian Green Building Council



IS 15477:2019

Type: 2 TS1
Adhesive Standards



OCTOPUS

UNBEATABLE STRENGTH FOR SEAMLESS TILING

GREEN BUILDING RATE

OCTO-1000 HIGH FLEX

Category; Inorganic Mineral Products
Mineral Adhesives with SAS technology



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 TS1 Adhesive standards
- Confirms for ANSI A118.4 shear bond strength requirements, standards
- Confirms with EN 12004/ISO 13007 with a C2TES1 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
- Porcelain tiles
- Laminated Stoneware
- Low thickness slabs
- Large 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-1000 HIGH FLEX is a high-performance tile adhesive suitable for internal installation of ceramic, porcelain, vitrified tiles and natural stones. The adhesive is fortified with polymer providing excellent adhesion and superior bonding strength. The adhesive is easy to use and has an extended open time, allowing for greater flexibility during tile installation.

OCTO-1000 HIGH FLEX is ideal for use on vertical and horizontal surfaces, including walls, floors and it can be used in both wet and dry areas.

APPLICABLE STANDARDS

- ANSI A 118.4
- EN / ISO with a C2TES1
- IS 15477:2019 Type: 2 TS1

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 (Can be used up to a maximum bed thickness of 12 mm) Coverage will vary depending on trowel notch size, type and size of tile & substrate smoothness and evenness.

APPLICATION

OCTO-1000 HIGH FLEX tile adhesive is a premium, polymer-fortified, and cement-based cm Y: 3.36 cm adhesive that is specifically designed for installing tile applications. This product is ideal for use in internal installations and it provides exceptional bond strength making it an excellent choice for high-traffic areas such as commercial settings, public spaces, and residential applications. Additionally, tile adhesive is easy to mix, apply, and clean up, making it a popular OCTO-1000 HIGH FLEX choice, for professional installers and DIY enthusiasts.

When using OCTO-1000 HIGH FLEX tile adhesive for tile applications, it is important to follow the manufacturer's instructions carefully. 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-1000 HIGH FLEX tile adhesive for tile applications are made possible by its excellent bonding strength. This adhesive is specifically designed to provide a strong and durable bond even in challenging environments. It is also resistant to water, frost, and chemicals making it an ideal choice for use in swimming pools, showers and other wet areas. Additionally OCTO-1000 HIGH FLEX tile adhesive is easy to use and can be applied quickly, making it an excellent choice for both large and small tiling projects.

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 OCTO-1000 HIGH FLEX tile adhesive.

STEP 2 :

Mix the required quantity of OCTO-1000 HIGH FLEX tile adhesive for loose plaster areas, remove the defective material and replaster the area with OCTO-1000 HIGH 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 OCTO-1000 HIGH FLEX tile adhesive on tile or floor with a trowel ensure complete bedding of tile in the mortar or adhesive with 100% coverage. When installing large tiles, in addition to the surface spread adhesive on the back of the tile. Choose the appropriate notched trowel. For floors or walls that are not even, replaster with OCTO-1000 HIGH 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-1000 HIGH FLEX tile adhesive is a premium, polymer-fortified adhesive mortar designed for installing large-format tile on both floors and walls. It is a high-performance formula that offers excellent bonding, strength, sag resistance, and workability, making it an ideal choice for challenging installations where other adhesives may fail. OCTO-1000 HIGH FLEX tile adhesive is suitable for use with a wide variety of tile including porcelain, ceramic, vitrified, marble, and granite. It is also approved for use in wet areas and internal installation. When applied to tile, OCTO 1000 are 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-1000 HIGH FLEX can be further improved by creating a mixture of the adhesive with other materials. This mixture can be customised to suit the specific needs of a particular tile installation project, such as adjusting the working time or enhancing the water resistance. Understanding the composition and properties of a mixture of OCTO-1000 HIGH FLEX 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 a OCTO-1000 HIGH 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-1000 HIGH 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	>30min
Adjustability time	Approx 40 minutes
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 & EN 12004 C2TES1 classification	
Initial tensile adhesion strength (after 28 days)	1.41 (N/mm ²)
Tensile adhesion strength after heat ageing	1.37 (N/mm ²)
Tensile adhesion strength after water immersion	1.45 (N/mm ²)
Tensile adhesion strength after freeze/thaw cycle	1.35 (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
Deformability according to ISO 13007-1 & EN 12004	S1 Deformable
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-1000 HIGH FLEX

SI.NO	CLASSIFICATION	UNITS OF MEASUREMENT	REQUIREMENT AS PER IS 15477-2019	OCTO - 1000 HIGH FLEX	CONFIRMS
1	Adjustment time/ Open time (E)	min	Shall not be less than that stated by manufacturer for (Type 2)	30 min	E 
2	Slip (for vertical application) (T)	mm	Shall not be more than 0.5mm (Type 2)	0.20 mm	T 
3	Deformability (For vertical Application) (S1)	mm	<5.0 mm (Type 2)	2.8 mm	S1 
4	28 Days Adhesion Strength (Normal Condition) Tensile Adhesion Strength (C2)	N/mm ²	Type 2 - 1.00 min	1.59 (Type 2)	C2 
5	28 Days Adhesion Strength (water Immersed condition) Tensile Adhesion Strength (C2)	N/mm ²	Type 2 - 1.00 min	1.50 (Type 2)	C2 
6	Shear Adhesion Strength 28 days At 70 +/- 3°C	N/mm ²	Type 2 - 1.25 min	1.6 (Type 2)	
7	Shear Adhesion Strength 28 days (Water immersed Condition)	N/mm ²	Type 2 - 1.00 min	1.23 (Type 2)	
8	Shear Adhesion Strength 28 days (Heat aging condition)	N/mm ²	Type 2 - 1.00 min	1.19 (Type 2)	
				Type 2 C2TE S1 	



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