



भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG, NEW DELHI 110002

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व्यापक परिचालन मसौदा

हमारा संदर्भ : सीईडी 05/T-81

08 अप्रैल 2024

तकनीकी समिति : फर्श, दीवार फिनिशिंग और छत अनुभागीय समिति सीईडी 05

प्राप्तकर्ता:

- 1) सिविल इंजीनियरी विभाग परिषद् के रूचि रखने वाले सदस्य
- 2) सीईडी 05 व उसकी सभी उपसमितियों के सभी सदस्य
- 3) रूचि रखने वाले अन्य निकाय

महोदय/महोदया,

निम्नलिखित मसौदा संलग्न है :

प्रलेख संख्या	शीर्षक
सीईडी 05 (24825)WC	आईएस 15477 में मसौदा संशोधन संख्या 1 : 2019 सिरमिक, मोज़ेक और पत्थर की टाइलों के साथ उपयोग के लिए चिपकने वाले - विशिष्टता (पहला संशोधन)

कृपया इस मसौदे का अवलोकन करें और अपनी सम्मतियाँ यह बताते हुए भेजे कि यह मसौदा भारतीय मानक के संशोधन के रूप में प्रकाशित हो तो इस पर अमल करने में आपको व्यवसाय अथवा कारोबार में क्या कठिनाइयाँ आ सकती हैं।

सम्मतियाँ भेजने की अंतिम तिथि: **15 मई 2024**.

सम्मति यदि कोई हो तो कृपया अधोहस्ताक्षरी को संलग्न फॉर्मेट में, ced5@bis.gov.in और pyadav@bis.gov.in पर ईमेल कर दें।

यदि कोई सम्मति प्राप्त नहीं होती है अथवा सम्मति में केवल भाषा संबंधी त्रुटि हुई तो उपरोक्त प्रलेख को यथावत अंतिम रूप दिया जाएगा। यदि सम्मति तकनीकी प्रकृति की हुई तो विषय समिति के अध्यक्ष के परामर्श से अथवा उनकी इच्छा पर आगे की कार्यवाही के लिए विषय समिति को भेजे जाने के बाद प्रलेखको अंतिम रूप दे दिया जाएगा।

यह प्रलेख भारतीय मानक ब्यूरो की वैबसाइट www.bis.gov.in पर भी उपलब्ध है।

धन्यवाद।

भवदीय

ह/-

(द्वैपायन भद्र)

प्रमुख (सिविल इंजीनियरी)

संलग्न : उपरिलिखित



भारतीय मानक ब्यूरो BUREAU OF INDIAN STANDARDS

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DRAFT IN WIDE CIRCULATION

Our Ref: CED 05/T-81

08 April 2024

Technical Committee: Flooring, Wall Finishing and Roofing Sectional Committee, CED 05

ADDRESSED TO:

- 1) All Interested Members of Civil Engineering Division Council, CEDC
- 2) All Members of CED 05 and its subcommittees,
- 3) All other interests.

Dear Sir/Madam,

Please find enclosed the following draft:

Doc No.	Title
CED 05 (24825)WC	Draft Amendment No. 1 to IS 15477 : 2019 Adhesives For Use With Ceramic, Mosaic And Stone Tiles — Specification (First Revision)

Kindly examine the draft and forward your views stating any difficulties which you are likely to experience in your business or profession, if this is finally adopted as National Standards.

Last Date for Comments: 15 May 2024.

Comments, if any, may please be made in the format as enclosed and e-mailed to the undersigned at ced5@bis.gov.in or pyadav@bis.gov.in in word format.

In case no comments are received or comments received are of editorial nature, you will kindly permit us to presume your approval for the above document as finalized. However, in case comments of technical nature are received, then this may be finalized either in consultation with the Chairman, Sectional Committee or referred to the Sectional Committee for further necessary action if so desired by the Chairman, Sectional Committee.

The document is also hosted on BIS website www.bis.gov.in.

Thanking you,

Yours faithfully,

Sd/-

(Dwaipayan Bhadra.)

Head (Civil Engineering)

Encl: as above

FORMAT FOR SENDING COMMENTS ON BIS DOCUMENTS

(Please use A-4 size sheet of paper only and type within fields indicated. Comments on each clause/sub-clause/table/fig etc. be started on a fresh box. Information in column 3 should include reasons for the comments and suggestions for modified working of the clauses when the existing text is found not acceptable. Adherence to this format facilitates Secretariat's work) {Please e-mail your comments to pyadav@bis.gov.in}

DOC. NO.: CED 05 (24825)WC

Title: Draft Amendment No. 1 to IS 15477 : 2019 Adhesives For Use With Ceramic, Mosaic And Stone Tiles — Specification (First Revision)

LAST DATE OF COMMENTS: 15/05/2024

NAME OF THE COMMENTATOR/ORGANIZATION: _____

Sl. No.	Clause/Para/Table/ Figure No. Commented	Comments/Modified Wordings	Justification of the Proposed Change

BUREAU OF INDIAN STANDARD**DRAFT FOR COMMENTS ONLY**

(Not to be reproduced without the permission of BIS or used as an Indian Standard)

Draft Amendment No. 1**To****IS 15477 : 2019 Adhesives For Use With Ceramic, Mosaic And Stone Tiles —
Specification (First Revision)**

Flooring, Wall Finishing and Roofing

Last date for Comment:

Sectional Committee CED 05

15/05/2024

(Page 1, Clause 4.1 including the Note thereunder) – Substitute the following with the existing:

‘4.1 Type 1 Adhesive

This adhesive is suitable mainly for tiles with apparent porosity greater than 3 percent. It is suitable for most of the clay and ceramic (non-vitrified) tiles of small dimension (size not more than 600 mm × 300 mm) and the majority of cement based backgrounds (substrates) like cement plaster, cement concrete, cement screed etc. and for interior dry area applications only.

NOTE – Type 1 adhesive generally contain varying small amounts of chemical polymers, hence the name General purpose adhesive is suitable for general, internal, clay or ceramic floor and wall tiling. The vital minor amounts of chemical polymers enable powder adhesives, which are based on bulk cement and filler, to be modified to have appropriate properties. By addition of liquid admixture to Type 1 adhesive, its properties can be enhanced to meet the performance criteria of Type 2 adhesive.’

(Page 1 and 2, Clause 4.2) – Substitute the following with the existing:

‘4.2 Type 2 Adhesive

This adhesive is mainly for tiles with an apparent porosity less than or equal to 3 percent. It is suitable for ceramic tiles, clay tiles, vitrified/fully vitrified tiles, glass mosaic tiles, all stones, dense and large dimension (More than 300 mm × 300 mm size and up to 600mm × 600mm) tiles and stones (slabs), and where cement based background and location is more demanding like wet areas, submerged areas etc. This type of adhesive is recommended for both interior floor and wall applications and for exterior floor applications. It is not suitable for external wall applications.

NOTE – By addition of liquid admixture to Type 2 adhesive, its properties can be enhanced to meet the performance criteria of Type 3 adhesive.’

(Page 2, Clause 4.3) – Substitute the following with the existing:

‘4.3 Type 3 Adhesive

This adhesive is suitable mainly for tiles and stone tiles on exterior wall substrates like plaster or concrete. It is suitable for tiles like ceramic, clay tiles, Basalt tiles, vitrified, glass mosaic tiles and porcelain tiles and all-natural stone tiles.’

For all tiles/stones of size more than 600 mm × 600 mm and up to 1 200 mm × 1 200 mm, the adhesive shall also comply with ‘S1’ category of Transverse deformation. For all tiles/stones

of size more than 1200 mm × 1200 mm, the adhesive shall also comply with 'S2' category of transverse deformation.'

(Page 2, Clause 4.4 including the Note thereunder) – Substitute the following with the existing:

'4.4 Type 4 Adhesive

This adhesive is suitable mainly for tiles and stone tiles which are included in above Type 1, Type 2 and Type 3 but intended for installation on dry wall board substrates. It is suitable for all types of tiles and stones except metal tiles or engineered stones to be installed on dry wall board substrates like gypsum boards, plywood, wood, calcium silicate boards, medium density fibreboards, fibre cement boards, cement boards, bison panel, etc.

For all tiles/stones of size more than 600 mm × 600 mm and up to 1200 mm × 1200 mm, the adhesive shall also comply with 'S1' category of transverse deformation. For all tiles/stones of size more than 1200 mm × 1200 mm, the adhesive shall also comply with 'S2' category of transverse deformation.

NOTES

1 Type 4 adhesive is generally of an acrylic or resinous chemistry, single dispersion based or two component system.

2 For exterior drywall cladding, as agreed between buyer and purchaser, Type 4 adhesive will be of 'S2' category of transverse deformation.'

(Page 2, Clause 4.5) – Insert the following new clause at the end:

'4.6 Modification in Adhesives

The polymer modified adhesive can be achieved by the addition of a liquid admixture to the standard general purpose adhesive which is called as polymer fortified adhesive. This is a more of specialist and technical solution that provides enhanced adhesion and increased flexibility. Thus, by addition of liquid admixture to Type 1 adhesive, its properties can be enhanced to meet the performance criteria of Type 2 or Type 3 or Type 4 adhesive.

NOTE — Type 2, Type 3 and Type 4 adhesives are more technical products, generally referred as polymer modified adhesives, and are required in situations where the background (substrate) or the tile or the surface is particularly challenging.'

(Page 3, Clause 5.6, line 3) – Substitute 'category' for 'class'.

(Page 11, Clause F-4, line 6) – Substitute 'Category' for 'Class'.